

CHTN BIBLIOGRAPHY 2013 – Sept 01, 2018

A: Publications Using CHTN Resources

B: Educational and Technical Publications by Members of the CHTN

C: US Patents Issued that Cite the CHTN

ALL PUBLICATIONS/PATENTS CITE THE CHTN IN TEXT AND/OR HAVE BEEN IDENTIFIED BY INVESTIGATORS

ABSTRACTS ARE NOT INCLUDED

A: PUBLICATIONS

2018

Partial Year - through Sept 1, 2018

1. Abisoye-Ogunniyan A, Lin H, Ghebremedhin A, Salam AB, Karanam B, Theodore S, Jones-Trich J, Davis M, Grizzle W, Wang H, Yates C: Transcriptional repressor Kaiso promotes epithelial to mesenchymal transition and metastasis in prostate cancer through direct regulation of miR-200c. *Cancer Lett.* 2018. 431:1-10. PMID: 29751044.
2. Agilent-Technologies: PD-L1 IHC 22C3 pharmDx: Interpretation Manual – Urothelial Carcinoma. Dako: Agilent Pathology Solutions, Carpinteria, CA., 2018.
3. Ahn PH, Finlay JC, Gallagher-Colombo SM, Quon H, O'Malley BW, Jr., Weinstein GS, Chalian A, Malloy K, Sollecito T, Greenberg M, Simone CB, 2nd, McNulty S, Lin A, Zhu TC, Livolsi V, Feldman M, Mick R, Cengel KA, Busch TM: Lesion oxygenation associates with clinical outcomes in premalignant and early stage head and neck tumors treated on a phase 1 trial of photodynamic therapy. *Photodiagnosis Photodyn Ther.* 2018. 21:28-35. PMID: 29113960. PMC ID:PMC5866751
4. Albertolle ME, Phan TTN, Pozzi A, Guengerich FP: Sulfenylation of human liver and kidney microsomal cytochromes p450 and other drug-metabolizing enzymes as a response to redox alteration. *Mol Cell Proteomics.* 2018. 17:889-900. PMID: 29374135. PMC ID:PMC5930400
5. Alvarez MJ, Subramaniam PS, Tang LH, Grunn A, Aburi M, Rieckhof G, Komissarova EV, Hagan EA, Bodei L, Clemons PA, Dela Cruz FS, Dhall D, Diolaiti D, Fraker DA, Ghavami A, Kaemmerer D, Karan C, Kidd M, Kim KM, Kim HC, Kunju LP, Langel U, Li Z, Lee J, Li H, LiVolsi V, Pfragner R, Rainey AR, Realubit RB, Remotti H, Regberg J, Roses R, Rustgi A, Sepulveda AR, Serra S, Shi C, Yuan X, Barberis M, Bergamaschi R, Chinnaiyan AM, Detre T, Ezzat S, Frilling A, Hommann M, Jaeger D, Kim MK, Knudsen BS, Kung AL, Leahy E, Metz DC, Milsom JW, Park YS, Reidy-Lagunes D, Schreiber S, Washington K, Wiedenmann B, Modlin I, Califano A: A precision oncology approach to the pharmacological targeting of mechanistic dependencies in neuroendocrine tumors. *Nat Genet.* 2018. PMID: 29915428

6. Andricovich J, Perkill S, Kai Y, Casasanta N, Peng W, Tzatsos A: Loss of KDM6A activates super-enhancers to induce gender-specific squamous-like pancreatic cancer and confers sensitivity to BET inhibitors. *Cancer Cell*. 2018. 33:512-526 e518. PMID: 29533787. PMC ID:PMC5854186
7. Aronova A, Min IM, Crowley MJP, Panjwani SJ, Finnerty BM, Scognamiglio T, Liu YF, Whitsett TG, Garg S, Demeure MJ, Elemento O, Zarnegar R, Fahey TJ, III: STMN1 is overexpressed in adrenocortical carcinoma and promotes a more aggressive phenotype in vitro. *Ann Surg Oncol*. 2018. 25:792-800. PMID: 29214451
8. Ayers LW, Barbachano-Guerrero A, McAllister SC, Ritchie JA, Asiago-Reddy E, Bartlett LC, Cesarman E, Wang D, Rochford R, Martin JN, King CA: Mast Cell Activation and KSHV Infection in Kaposi Sarcoma. *Clin Cancer Res*. 2018. PMID: 30084838
9. Babbar M, Huang Y, An J, Landas SK, Sheikh MS: CHTM1, a novel metabolic marker deregulated in human malignancies. *Oncogene*. 2018. 37:2052-2066. PMID: 29371680. PMC ID:PMC5897135
10. Barajas JM, Reyes R, Guerrero MJ, Jacob ST, Motiwala T, Ghoshal K: The role of miR-122 in the dysregulation of glucose-6-phosphate dehydrogenase (G6PD) expression in hepatocellular cancer. *Sci Rep*. 2018. 8:9105. PMID: 29904144. PMC ID:PMC6002539
11. Betsou F, Bilbao R, Case J, Chuaqui R, Clements JA, De Souza Y, De Wilde A, Geiger J, Grizzle W, Guadagni F, Gunter E, Heil S, Kiehnopf M, Koppandi I, Lehmann S, Linsen L, Mackenzie-Dodds J, Aguilar Quesada R, Tebbakha R, Selander T, Shea K, Sobel M, Somiari S, Spyropoulos D, Stone M, Tybring G, Valyi-Nagy K, Wadhwa L: Standard PReanalytical Code version 3.0. *Biopreserv Biobank*. 2018. PMID: 29377712.
12. Bhagirath D, Yang TL, Bucay N, Sekhon K, Majid S, Shahryari V, Dahiya R, Tanaka Y, Saini S: microRNA-1246 is an exosomal biomarker for aggressive prostate cancer. *Cancer Res*. 2018. 78:1833-1844. PMID: 29437039. PMC ID:PMC5890910
13. Bolouri H, Farrar JE, Triche T, Jr., Ries RE, Lim EL, Alonzo TA, Ma Y, Moore R, Mungall AJ, Marra MA, Zhang J, Ma X, Liu Y, Auvil JMG, Davidsen TM, Gesuwan P, Hermida LC, Salhia B, Capone S, Ramsingh G, Zwaan CM, Noort S, Piccolo SR, Kolb EA, Gamis AS, Smith MA, Gerhard DS, Meshinchi S: The molecular landscape of pediatric acute myeloid leukemia reveals recurrent structural alterations and age-specific mutational interactions. *Nat Med*. 2018. 24:103-112. PMID: 29227476. PMC ID:PMC5907936
14. Carter JH, Deddens JA, Mueller G, Lewis TG, Dooley MK, Robillard MC, Frydl M, Duvall L, Pemberton JO, Douglass LE: Transcription factors WT1 and p53 combined: a prognostic biomarker in ovarian cancer. *Br J Cancer*. 2018. PMID: 30057405.
15. Caslin HL, Taruselli MT, Paranjape A, Kiwanuka K, Haque T, Chumanevich AP, Oskeritzian CA, Ryan JJ: The use of human and mouse mast cell and basophil cultures to assess type 2 inflammation. In: Reinhardt R. (eds) Type 2 Immunity. *Methods in Molecular Biology*, vol 1799. 2018. Humana Press, New York, NY.
16. Chang RK, Li X, Mu N, Hrydziuszko O, Garcia-Majano B, Larsson C, Lui WO: MicroRNA expression profiles in nonepithelial ovarian tumors. *Int J Oncol*. 2018. 52:55-66. PMID: 29138809. PMC ID:PMC5743337

17. Chawla S, Loevner LA, Kim SG, Hwang WT, Wang S, Verma G, Mohan S, LiVolsi V, Quon H, Poptani H: Dynamic contrast-enhanced MRI-derived intracellular water lifetime (τ_i): A prognostic marker for patients with head and neck squamous cell carcinomas. *AJNR Am J Neuroradiol*. 2018. 39:138-144. PMID: 29146716. PMC ID:PMC5766394
18. Choksi YA, Reddy VK, Singh K, Barrett CW, Short SP, Parang B, Keating CE, Thompson JJ, Verriere TG, Brown RE, Piazzuelo MB, Bader DM, Washington MK, Mittal MK, Brand T, Gobert AP, Coburn LA, Wilson KT, Williams CS: BVES is required for maintenance of colonic epithelial integrity in experimental colitis by modifying intestinal permeability. *Mucosal Immunol*. 2018. PMID: 29907869
19. Cosgrove CM, Tritchler DL, Cohn DE, Mutch DG, Rush CM, Lankes HA, Creasman WT, Miller DS, Ramirez NC, Geller MA, Powell MA, Backes FJ, Landrum LM, Timmers C, Suarez AA, Zaino RJ, Pearl ML, DiSilvestro PA, Lele SB, Goodfellow PJ: An NRG Oncology/GOG study of molecular classification for risk prediction in endometrioid endometrial cancer. *Gynecol Oncol*. 2018. 148:174-180. PMID: 29132872. PMC ID:PMC5756518
20. Davis M, Tripathi S, Hughley R, He Q, Bae S, Karanam B, Martini R, Newman L, Colomb W, Grizzle W, Yates C: AR negative triple negative or "quadruple negative" breast cancers in African American women have an enriched basal and immune signature. *PLoS One*. 2018. 13:e0196909. PMID: 29912871
21. de la Rosa X, Norris PC, Chiang N, Rodriguez AR, Spur BW, Serhan CN: Identification and complete stereochemical assignments of the new resolvin conjugates in tissue regeneration in human tissues that stimulate proresolving phagocyte functions and tissue regeneration. *Am J Pathol*. 2018. 188:950-966. PMID: 29571326. PMC ID:PMC5866152
22. Deel MD, Slemmons KK, Hinson AR, Genadry KC, Burgess BA, Crose LES, Kuprasertkul N, Oristian KM, Bentley RC, Linardic CM: The transcriptional coactivator TAZ Is a potent mediator of alveolar rhabdomyosarcoma tumorigenesis. *Clin Cancer Res*. 2018. 24:2616-2630. PMID: 29514840
23. Demark-Wahnefried W, Rais-Bahrami S, Desmond RA, Gordetsky JB, Azrad M, Fruge AD, Yang ES, Norian LA, Grizzle WE: Reply to "Phase II prospective randomized trial of weight loss prior to radical prostatectomy". *Prostate Cancer Prostatic Dis*. 2018. PMID: 29686416
24. Deng H, Hillpot E, Yeboah P, Mondal S, Woodworth CD: Susceptibility of epithelial cells cultured from different regions of human cervix to HPV16-induced immortalization. *PLoS One*. 2018. 13:e0199761. PMID: 29944714. PMC ID:PMC6019754
25. Devarajan A, Su F, Grijalva V, Yalamanchi M, Yalamanchi A, Gao F, Trost H, Nwokedi J, Farias-Eisner G, Farias-Eisner R, Fogelman AM, Reddy ST: Paraoxonase 2 overexpression inhibits tumor development in a mouse model of ovarian cancer. *Cell Death Dis*. 2018. 9:392. PMID: 29531225. PMC ID:PMC5847560
26. Doster RS, Rogers LM, Gaddy JA, Aronoff DM: Macrophage extracellular traps: A Scoping Review. *J Innate Immun*. 2018. PMID: 28988241

27. Eastlack SC, Dong S, Ivan C, Alahari SK: Suppression of PDHX by microRNA-27b deregulates cell metabolism and promotes growth in breast cancer. *Mol Cancer*. 2018. 17:100. PMID: 30012170. PMC ID:PMC6048708
28. Eastlack SC, Dong S, Mo YY, Alahari SK: Expression of long noncoding RNA MALAT1 correlates with increased levels of Nischarin and inhibits oncogenic cell functions in breast cancer. *PLoS One*. 2018. 13:e0198945. PMID: 29912916. PMC ID:PMC6005468
29. Espaillat MP, Snider AJ, Qiu Z, Channer B, Coant N, Schuchman EH, Kew RR, Sheridan BS, Hannun YA, Obeid LM: Loss of acid ceramidase in myeloid cells suppresses intestinal neutrophil recruitment. *FASEB J*. 2018. PMID: 29259036.
30. Ferdosi S, Rehder DS, Maranian P, Castle EP, Ho TH, Pass HI, Cramer DW, Anderson KS, Fu L, Cole DEC, Le T, Wu X, Borges CR: Stage dependence, cell-origin independence, and prognostic capacity of serum glycan fucosylation, beta1-4 branching, beta1-6 branching, and alpha2-6 sialylation in cancer. *J Proteome Res*. 2018. 17:543-558. PMID: 29129073. PMC ID:PMC5978412
31. Ferguson DC, Blanco JG: Regulation of the human Fc-neonatal receptor alpha-chain gene FCGRT by microRNA-3181. *Pharm Res*. 2018. 35:15. PMID: 29302759. PMC ID:PMC5757240
32. Fernandez CV, Mullen EA, Chi YY, Ehrlich PF, Perlman EJ, Kalapurakal JA, Khanna G, Paulino AC, Hamilton TE, Gow KW, Tochner Z, Hoffer FA, Withycombe JS, Shamberger RC, Kim Y, Geller JI, Anderson JR, Grundy PE, Dome JS: Outcome and prognostic factors in stage III favorable-histology Wilms tumor: A Report From the Children's Oncology Group Study AREN0532. *J Clin Oncol*. 2018. 36:254-261. PMID: 29211618. PMC ID:PMC5773840
33. Franco A, Kraus Z, Li H, Seibert N, Dement-Brown J, Tolnay M: CD21 and FCRL5 form a receptor complex with robust B cell activating capacity. *Int Immunol*. 2018. PMID: 30107486.
34. Ganaie A, Beigh FH, Astone M, Ferrari MG, Maqbool R, Umbreen S, Parray AS, Siddique HR, Hussain T, Murugan P, Morrissey C, Koochekpour S, Deng Y, Konety BR, Hoepfner LH, Saleem M: BMI1 drives metastasis of prostate cancer in Caucasian and African-American men and is a potential therapeutic target: hypothesis tested in race-specific models. *Clin Cancer Res*. 2018. PMID: 30087142
35. Garza KY, Feider CL, Klein DR, Rosenberg JA, Brodbelt JS, Eberlin LS: Desorption electrospray ionization mass spectrometry imaging of proteins directly from biological tissue sections. *Anal Chem*. 2018. 90:7785-7789. PMID: 29800516
36. Gharpure KM, Pradeep S, Sans M, Rupaimoole R, Ivan C, Wu SY, Bayraktar E, Nagaraja AS, Mangala LS, Zhang X, Haemmerle M, Hu W, Rodriguez-Aguayo C, McGuire M, Mak CSL, Chen X, Tran MA, Villar-Prados A, Pena GA, Kondetimmanahalli R, Nini R, Koppula P, Ram P, Liu J, Liu Y, Li C, Jia X, Huang L, Weiss JW: AMPA receptor-dependent glutamatergic signaling is present in the carotid chemoreceptor. *Neuroscience*. 2018. 382:59-68. PMID: 29723577
37. Gharpure KM, Pradeep S, Sans M, Rupaimoole R, Ivan C, Wu SY, Bayraktar E, Nagaraja AS, Mangala LS, Zhang X, Haemmerle M, Hu W, Rodriguez-Aguayo C, McGuire M, Mak CSL, Chen X, Tran MA, Villar-Prados A, Pena GA, Kondetimmanahalli R, Nini R, Koppula P, Ram P, Liu J, Lopez-Berestein G, Baggerly K, S. Eberlin L, Sood AK: FABP4 as a key determinant of

metastatic potential of ovarian cancer. *Nature Communications*. 2018. 9:2923. PMID: PMC6062524

38. Gonzalez B, Fece de la Cruz F, Samuelsson JK, Alibes A, Alonso S: Epigenetic and transcriptional dysregulation of VWA2 associated with a MYC-driven oncogenic program in colorectal cancer. *Sci Rep*. 2018. 8:11097. PMID: 30038405. PMC ID:PMC6056412
39. Gotesman M, Vo TT, Herzog LO, Tea T, Mallya S, Tasian SK, Konopleva M, Fruman DA: mTOR inhibition enhances efficacy of dasatinib in ABL-rearranged Ph-like B-ALL. *Oncotarget*. 2018. 9:6562-6571. PMID: 29464092. PMC ID:PMC5814232
40. Gowda R, Dinavahi SS, Iyer S, Banerjee S, Neves RI, Pameijer CR, Robertson GP: Nanoliposomal delivery of cytosolic phospholipase A2 inhibitor arachidonyl trimethyl ketone for melanoma treatment. *Nanomedicine*. 2018. 14:863-873. PMID: 29317343. PMC ID:PMC5899023
41. Gruber HE, Hanley EN, Jr.: Expression of serglycin in human disc is increased in degenerated discs and up-regulated in vitro by exposure to IL-1ss or TNF-alpha. *Biotech Histochem*. 2018. 1-9. PMID: 29319363
42. Guha M, Srinivasan S, Raman P, Jiang Y, Kaufman BA, Taylor D, Dong D, Chakrabarti R, Picard M, Carstens RP, Kijima Y, Feldman M, Avadhani NG: Aggressive triple negative breast cancers have unique molecular signature on the basis of mitochondrial genetic and functional defects. *Biochim Biophys Acta*. 2018. (epub date 2018/01/09) PMID: 29309924
43. Haifler M, Pence I, Sun Y, Kutikov A, Uzzo RG, Mahadevan-Jansen A, Patil CA: Discrimination of malignant and normal kidney tissue with short wave infrared dispersive Raman spectroscopy. *J Biophotonics*. 2018. 11:e201700188. PMID: 29411949. <https://doi.org/10.1002/jbio.201700188>
44. Hefti E, Blanco JG: Mitochondrial DNA heteroplasmy in cardiac tissue from individuals with and without coronary artery disease. *Mitochondrial DNA A DNA Mapp Seq Anal*. 2018. 29:587-593. PMID: 28521548. PMC ID:PMC5694712
45. Heppt MV, Wang JX, Hristova DM, Wei Z, Li L, Evans B, Beqiri M, Zaman S, Zhang J, Irmeler M, Berking C, Besch R, Beckers J, Rauscher FJ, 3rd, Sturm RA, Fisher DE, Herlyn M, Fukunaga-Kalabis M: MSX1-induced neural crest-like reprogramming promotes melanoma progression. *J Invest Dermatol*. 2018. 138:141-149. PMID: 28927893. PMC ID:PMC5902795
46. Hodgkinson K, Forrest LA, Vuong N, Garson K, Djordjevic B, Vanderhyden BC: GREB1 is an estrogen receptor-regulated tumour promoter that is frequently expressed in ovarian cancer. *Oncogene*. 2018. PMID: 29973689
47. Holmes B, Benavides-Serrato A, Freeman RS, Landon KA, Bashir T, Nishimura RN, Gera J: mTORC2/AKT/HSF1/HuR constitute a feed-forward loop regulating Rictor expression and tumor growth in glioblastoma. *Oncogene*. 2018. 37:732-743. PMID: 29059166. PMC ID:PMC5805585
48. Hu Z, Shen R, Campbell A, McMichael E, Yu L, Ramaswamy B, London CA, Xu T, Carson WE, 3rd: Targeting tissue factor for immunotherapy of triple-negative breast cancer using a second-generation ICON. *Cancer Immunol Res*. 2018. 6:671-684. PMID: 29622581. PMC ID:PMC5984705

49. Jun E, Oh J, Lee S, Jun HR, Seo EH, Jang JY, Kim SC: Method optimization for extracting high-quality RNA from the human pancreas tissue. *Transl Oncol.* 2018. 11:800-807. PMID: 29705629. PMC ID:PMC6060079
50. Kim EY, Sudini K, Singh AK, Haque M, Leaman D, Khuder S, Ahmed S: Ursolic acid facilitates apoptosis in rheumatoid arthritis synovial fibroblasts by inducing SP1-mediated Noxa expression and proteasomal degradation of Mcl-1. *FASEB J.* 2018. fj201800425R. PMID: 29799788.
51. Klinghammer K, Keller J, George J, Hoffmann J, Chan EL, Hayman MJ: A phosphoarray platform is capable of personalizing kinase inhibitor therapy in head and neck cancers. *Int J Cancer.* 2018. 142:156-164. PMID: 28906000. PMC ID:PMC5765765
52. Knapp KA, Pires ES, Adair SJ, Mandal A, Mills AM, Olson WC, Slingluff CL, Jr., Parsons JT, Bauer TW, Bullock TN, Herr JC: Evaluation of SAS1B as a target for antibody-drug conjugate therapy in the treatment of pancreatic cancer. *Oncotarget.* 2018. 9:8972-8984. PMID: 29507667. PMC ID:PMC5823626
53. Kumar P, Marinelarena A, Raghunathan D, Ragothaman VK, Saini S, Bhattacharya P, Fan J, Epstein AL, Maker AV, Prabhakar BS: Critical role of OX40 signaling in the TCR-independent phase of human and murine thymic Treg generation. *Cell Mol Immunol.* 2018. PMID: 29578532
54. Lamb CA, Fabris VT, Jacobsen B, Molinolo AA, Lanari C: Biological and clinical impact of imbalanced progesterone receptor isoform ratios in breast cancer. *Endocr Relat Cancer.* 2018. PMID: 29991638
55. Lee KE, Spata M, Maduka R, Vonderheide RH, Simon MC: Hif1alpha deletion limits tissue regeneration via aberrant B cell accumulation in experimental pancreatitis. *Cell Rep.* 2018. 23:3457-3464. PMID: 29924990
56. Le Gallo M, Rudd ML, Urick ME, Hansen NF, Merino MJ, Mutch DG, Goodfellow PJ, Mullikin JC, Bell DW: The FOXA2 transcription factor is frequently somatically mutated in uterine carcinosarcomas and carcinomas. *Cancer Cytopathol.* 2018. 124:65-73. PMID: 28940304. PMC ID:PMC5735010
57. Liu Y, Li C, Jia X, Huang L, Weiss JW: AMPA receptor-dependent glutamatergic signaling is present in the carotid chemoreceptor. *Neuroscience.* 2018. 382:59-68. PMID: 29723577
58. Locke LW, Crouser ED, White P, Julian MW, Guirado Caceres E, Papp AC, Le VT, Sadee W, Schlesinger LS: IL-13-regulated macrophage polarization during granuloma formation in an in vitro human sarcoidosis model. *Am J Respir Cell Mol Biol.* 2018. PMID: 30134122
59. Lombrana AQ, Li N, Del Solar V, Ekin Atilla-Gokcumen G, Blanco JG: CBR1 rs9024 genotype status impacts the bioactivation of loxoprofen in human liver. *Biopharm Drug Dispos.* 2018. PMID: 29851133
60. Lotfi-Emran S, Ward BR, Le QT, Pozez AL, Manjili MH, Woodfolk JA, Schwartz LB: Human mast cells present antigen to autologous CD4+ T cells. *J Allergy Clin Immunol.* 2018. PMID: 28624612

61. Ludwik KA, McDonald OG, Brenin DR, Lannigan DA: ERalpha-mediated nuclear sequestration of RSK2 is required for ER(+) breast cancer tumorigenesis. *Cancer Res.* 2018. 78:2014-2025. PMID: 29351904
62. Mallangada NA, Vargas JM, Thomas S, DiGiovanni MG, Vaeth BM, Nemesure MD, Wang R, LaComb JF, Williams JL, Golub LM, Johnson F, Mackenzie GG: A novel tricarbonylmethane agent (CMC2.24) reduces human pancreatic tumor growth in mice by targeting Ras. *Mol Carcinog.* 2018. PMID: 29683208
63. Maziveyi M, Dong S, Baranwal S, Alahari SK: Nischarin regulates focal adhesion and Invadopodia formation in breast cancer cells. *Mol Cancer.* 2018. 17:21. PMID: 29415725. PMC ID:PMC5803897
64. McHale C, Mohammed Z, Deppen J, Gomez G: Interleukin-6 potentiates FcepsilonRI-induced PGD2 biosynthesis and induces VEGF from human in situ-matured skin mast cells. *Biochim Biophys Acta.* 2018. 1862:1069-1078. PMID: 29410184. PMC ID:PMC5866211
65. Means AL, Freeman TJ, Zhu J, Woodbury LG, Marincola-Smith P, Wu C, Meyer AR, Weaver CJ, Padmanabhan C, An H, Zi J, Wessinger BC, Chaturvedi R, Brown TD, Deane NG, Coffey RJ, Wilson KT, Smith JJ, Sawyers CL, Goldenring JR, Novitskiy SV, Washington MK, Shi C, Beauchamp RD: Epithelial Smad4 deletion up-regulates inflammation and promotes inflammation-associated cancer. *Cellular and Molecular Gastroenterology and Hepatology.* 2018
66. Mills AM, Dill EA, Moskaluk CA, Dziegielewski J, Bullock TN, Dillon PM: The relationship between mismatch repair deficiency and PD-L1 expression in breast carcinoma. *Am J Surg Pathol.* 2018. 42:183-191. PMID: 28914717
67. Mills AM, Gradecki SE, Horton BJ, Blackwell R, Moskaluk CA, Mandell JW, Mills SE, Cathro HP: Diagnostic efficiency in digital pathology: A comparison of optical versus digital assessment in 510 surgical pathology cases. *Am J Surg Pathol.* 2018. 42:53-59. PMID: 28877052
68. Mohamad T, Kazim N, Adhikari A, Davie JK: EGR1 interacts with TBX2 and functions as a tumor suppressor in rhabdomyosarcoma. *Oncotarget.* 2018. 9:18084-18098. PMID: 29719592. PMC ID:PMC5915059
69. Mohan S, Greenstein I, Ng C, Frazier K, Nguyen G, Harding L, Barlow D: Assessing N (w)-hydroxy-L-arginine applicability as a novel ethnic specific estrogen-negative breast cancer marker. *Amino Acids.* 2018. PMID: 29260322
70. Moore N, Doty D, Zielstorff M, Kariv I, Moy LY, Gimbel A, Chevillet JR, Lowry N, Santos J, Mott V, Kratchman L, Lau T, Addona G, Chen H, Borenstein JT: A multiplexed microfluidic system for evaluation of dynamics of immune-tumor interactions. *Lab Chip.* 2018. 18:1844-1858. PMID: 29796561
71. Moore PA, Shah K, Yang Y, Alderson R, Roberts P, Long V, Liu D, Li JC, Burke S, Ciccarone V, Li H, Fieger CB, Hooley J, Easton A, Licea M, Gorlatov S, King KL, Young P, Adami A, Loo D, Chichili GR, Liu L, Smith DH, Brown JG, Chen FZ, Koenig S, Mather J, Bonvini E, Johnson S: Development of MGD007, a gpA33 x CD3 bispecific DART(R) protein for T-cell immunotherapy of metastatic colorectal cancer. *Mol Cancer Ther.* 2018. PMID: 29866746

72. Mukhopadhyay S, Feldman MD, Abels E, Ashfaq R, Beltaifa S, Cacciabeve NG, Cathro HP, Cheng L, Cooper K, Dickey GE, Gill RM, Heaton RP, Jr., Kerstens R, Lindberg GM, Malhotra RK, Mandell JW, Manlucu ED, Mills AM, Mills SE, Moskaluk CA, Nelis M, Patil DT, Przybycin CG, Reynolds JP, Rubin BP, Saboorian MH, Salicru M, Samols MA, Sturgis CD, Turner KO, Wick MR, Yoon JY, Zhao P, Taylor CR: Whole slide imaging versus microscopy for primary diagnosis in surgical pathology: A multicenter blinded randomized noninferiority study of 1992 cases (Pivotal Study). *Am J Surg Pathol.* 2018. 42:39-52. PMID: 28961557. PMC ID:PMC5737464
73. Martin JW, Chen JC, Neidleman J, Tatsumi K, Hu J, Giudice LC, Greene WC, Roan NR: Potent and rapid activation of tropomyosin-receptor kinase A in endometrial stromal fibroblasts by seminal plasma. *Biol Reprod.* 2018. 99:336-348. PMID: 29518187. PMC ID:PMC6084595
74. McFall T, McKnight B, Rosati R, Kim S, Huang Y, Viola-Villegas N, Ratnam M: Progesterone receptor A promotes invasiveness and metastasis of luminal breast cancer by suppressing regulation of critical microRNAs by estrogen. *J Biol Chem.* 2018. 293:1163-1177. PMID: 29162724. PMC ID:PMC5787796
75. Muller JA, Harms M, Kruger F, Gross R, Joas S, Hayn M, Dietz AN, Lippold S, von Einem J, Schubert A, Michel M, Mayer B, Cortese M, Jang KS, Sandi-Monroy N, Deniz M, Ebner F, Vapalahti O, Otto M, Bartenschlager R, Herbeuval JP, Schmidt-Chanasit J, Roan NR, Munch J: Semen inhibits Zika virus infection of cells and tissues from the anogenital region. *Nat Commun.* 2018. 9:2207. PMID: 29880824. PMC ID:PMC5992203
76. Nguyen QH, Pervolarakis N, Blake K, Ma D, Davis RT, James N, Phung AT, Willey E, Kumar R, Jabart E, Driver I, Rock J, Goga A, Khan SA, Lawson DA, Werb Z, Kessenbrock K: Profiling human breast epithelial cells using single cell RNA sequencing identifies cell diversity. *Nat Commun.* 2018. 9:2028. PMID: 29795293. PMC ID:PMC5966421
77. Oblinger JL, Burns SS, Huang J, Pan L, Ren Y, Shen R, Kinghorn AD, Welling DB, Chang LS: Overexpression of eIF4F components in meningiomas and suppression of meningioma cell growth by inhibiting translation initiation. *Exp Neurol.* 2018. PMID: 28610844
78. Ochocki JD, Khare S, Hess M, Ackerman D, Qiu B, Daisak JI, Worth AJ, Lin N, Lee P, Xie H, Li B, Wubbenhorst B, Maguire TG, Nathanson KL, Alwine JC, Blair IA, Nissim I, Keith B, Simon MC: Arginase 2 suppresses renal carcinoma progression via biosynthetic cofactor pyridoxal phosphate depletion and increased polyamine toxicity. *Cell Metab.* 2018. 27:1263-1280 e1266. PMID: 29754953. PMC ID:PMC5990482
79. Omar OM, Soutto M, Bhat NS, Bhat AA, Lu H, Chen Z, El-Rifai W: TFF1 antagonizes TIMP-1 mediated proliferative functions in gastric cancer. *Mol Carcinog.* 2018. PMID: 30035371
80. Paredes J, Ji P, Lacombe JF, Shroyer KR, Martello LA, Williams JL: Establishment of three novel cell lines derived from African American patients with colorectal carcinoma: A unique tool for assessing racial health disparity. *Int J Oncol.* 2018. 53:1516-1528. PMID: 30066857. PMC ID:PMC6086619
81. Parsons BL: Multiclonal tumor origin: Evidence and implications. *Mutat Res.* 2018. 777:1-18. PMID: 30115427

82. Patel KN, Angell TE, Babiarz J, Barth NM, Blevins T, Duh QY, Ghossein RA, Harrell RM, Huang J, Kennedy GC, Kim SY, Kloos RT, LiVolsi VA, Randolph GW, Sadow PM, Shanik MH, Sosa JA, Traweek ST, Walsh PS, Whitney D, Yeh MW, Ladenson PW: Performance of a genomic sequencing classifier for the preoperative diagnosis of cytologically indeterminate thyroid nodules. *JAMA Surg.* 2018. PMID: 29799911
83. Patel P, Hemond M, Silkiss RZ: Atypical presentation of squamous papilloma. *Ophthal Plast Reconstr Surg.* 2018. (epub date 2018/01/18) PMID: 29342034
84. Phillips T, Millett MM, Zhang X, Jansson M, Cleveland R, Simmons P, Cherryholmes G, Carnahan J, William J, Spaulding B, Satnick IR, Inzunza HD, Taylor C, Cogswell J, Novotny J, Oroudjev E, Winther H: Development of a diagnostic programmed cell death 1-ligand 1 immunohistochemistry assay for nivolumab therapy in melanoma. *Appl Immunohistochem Mol Morphol.* 2018. 26:6-12. PMID: 29189265. PMC ID:PMC5753812
85. Porcari AM, Zhang J, Garza KY, Rodrigues-Peres RM, Lin JQ, Young J, Tibshirani R, Nagi C, Paiva GR, Carter SA, Sarian LO, Eberlin MN, Eberlin LS: A multi-center study using desorption electrospray ionization mass spectrometry imaging for breast cancer diagnosis. *Anal Chem.* 2018. PMID: 30170496
86. Raman P, Maddipati R, Lim KH, Tozeren A: Pancreatic cancer survival analysis defines a signature that predicts outcome. *PLoS One.* 2018. 13:e0201751. PMID: 30092011. PMC ID:PMC6084949
87. Riad A, Narasimhulu CA, Deme P, Parthasarathy S: A novel mechanism for atherosclerotic calcification: potential resolution of the oxidation paradox. *Antioxid Redox Signal.* 2018. PMID: 29237273
88. Ringleb J, Strack E, Angioni C, Geisslinger G, Steinhilber D, Weigert A, Brune B: Apoptotic cancer cells suppress 5-lipoxygenase in tumor-associated macrophages. *J Immunol.* 2018. 200:857-868. PMID: 29229677
89. Rogers LM, Anders AP, Doster RS, Gill EA, Gnecco JS, Holley JM, Randis TM, Ratner AJ, Gaddy JA, Osteen K, Aronoff DM: Decidual stromal cell-derived PGE2 regulates macrophage responses to microbial threat. *Am J Reprod Immunol.* 2018. e13032. PMID: 30084522.
90. Rogers LM, Gaddy JA, Manning SD, Aronoff DM: Variation in Macrophage phagocytosis of *Streptococcus agalactiae* does not reflect bacterial capsular serotype, multilocus sequence type, or association with invasive infection. *Pathog Immun.* 2018. 3:63-71. PMID: 29930990. PMC ID:PMC6007880
91. Russo A, Czarnecki AA, Dean M, Modi DA, Lantvit DD, Hardy L, Baligod S, Davis DA, Wei JJ, Burdette JE: PTEN loss in the fallopian tube induces hyperplasia and ovarian tumor formation. *Oncogene.* 2018. 37:1976-1990. PMID: 29367766
92. Saed GM, Fletcher NM, Diamond MP, Morris RT, Gomez-Lopez N, Memaj I: Novel expression of CD11b in epithelial ovarian cancer: Potential therapeutic target. *Gynecol Oncol.* 2018. 148:567-575. PMID: 29329880
93. Samykutty A, Grizzle WE, Fouts BL, McNally MW, Chuong P, Thomas A, Chiba A, Otali D, Woloszynska A, Said N, Frederick PJ, Jasinski J, Liu J, McNally LR: Optoacoustic imaging

identifies ovarian cancer using a microenvironment targeted theranostic wormhole mesoporous silica nanoparticle. *Biomaterials*. 2018. 182: 114-126

94. Sampayo RG, Toscani AM, Rubashkin MG, Thi K, Masullo LA, Violi IL, Lakins JN, Caceres A, Hines WC, Coluccio Leskow F, Stefani FD, Chialvo DR, Bissell MJ, Weaver VM, Simian M: Fibronectin rescues estrogen receptor alpha from lysosomal degradation in breast cancer cells. *J Cell Biol*. 2018. PMID: 29980625
95. Samuels SL, Surrey LF, Hawkes CP, Amberge M, Mostoufi-Moab S, Langer JE, Adzick NS, Kazahaya K, Bhatti T, Baloch Z, LiVolsi VA, Bauer AJ: Characteristics of follicular variant papillary thyroid carcinoma in a pediatric cohort. *J Clin Endocrinol Metab*. 2018. 103:1639-1648. PMID: 29438531
96. Sanchez DJ, Steger DJ, Skuli N, Bansal A, Simon MC: PPARgamma is dispensable for clear cell renal cell carcinoma progression. *Mol Metab*. 2018. PMID: 29866440. PMC ID:PMC6034040
97. Schonfeld K, Herbener P, Zuber C, Hader T, Bernoster K, Uherek C, Schuttrumpf J: activity of indatuximab ravtansine against triple-negative breast cancer in preclinical tumor models. *Pharm Res*. 2018. 35:118. PMID: 29666962. PMC ID:PMC5904230
98. Schulte ML, Fu A, Zhao P, Li J, Geng L, Smith ST, Kondo J, Coffey RJ, Johnson MO, Rathmell JC, Sharick JT, Skala MC, Smith JA, Berlin J, Washington MK, Nickels ML, Manning HC: Pharmacological blockade of ASCT2-dependent glutamine transport leads to antitumor efficacy in preclinical models. *Nat Med*. 2018. 24:194-202. PMID: 29334372. PMC ID:PMC5803339
99. Scott MC, Temiz NA, Sarver AE, LaRue RS, Rathe SK, Varshney J, Wolf NK, Moriarity BS, O'Brien TD, Spector LG, Largaespada DA, Modiano JF, Subramanian S, Sarver AL: Comparative transcriptome analysis quantifies immune cell transcript levels, metastatic progression, and survival in osteosarcoma. *Cancer Res*. 2018. 78:326-337. PMID: 29066513. PMC ID:PMC5935134
100. Serpooshan V, Sheibani S, Pushparaj P, Wojcik M, Jang AY, Santoso MR, Jang JH, Huang H, Safavi-Sohi R, Haghjoo N, Nejadnik H, Aghaverdi H, Vali H, Kinsella JM, Presley J, Xu K, Yang PC, Mahmoudi M: Effect of cell sex on uptake of nanoparticles: the overlooked factor at the nanobio interface. *ACS Nano*. 2018. 12:2253-2266. PMID: 29536733
101. Seshadri S, Pope RL, Zenewicz LA: Glucocorticoids inhibit group 3 innate lymphocyte IL-22 production. *J Immunol*. 2018. PMID: 29980608
102. Shi J, Wang X, Zhu H, Jiang H, Wang D, Nesvizhskii A, Zhu HJ: Determining allele-specific protein expression (ASPE) using a novel QconCAT-based proteomics method. *J Proteome Res*. 2018. PMID: 30141943
103. Shin SH, Thomas S, Raney SG, Ghosh P, Hammell DC, El-Kamary SS, Chen WH, Billington MM, Hassan HE, Stinchcomb AL: In vitro-in vivo correlations for nicotine transdermal delivery systems evaluated by both in vitro skin permeation (IVPT) and in vivo serum pharmacokinetics under the influence of transient heat application. *J Control Release*. 2018. 270:76-88. PMID: 29175139

104. Silagi ES, Batista P, Shapiro IM, Risbud MV: Expression of carbonic anhydrase iii, a nucleus pulposus phenotypic marker, is hypoxia-responsive and confers protection from oxidative stress-induced cell death. *Sci Rep*. 2018. 8:4856. PMID: 29559661. PMC ID:PMC5861082
105. Singh K, Coburn LA, Asim M, Barry DP, Allaman MM, Shi C, Washington MK, Luis PB, Schneider C, Delgado AG, Piazuolo MB, Cleveland JL, Gobert AP, Wilson KT: Ornithine decarboxylase in macrophages exacerbates colitis and promotes colitis-associated colon carcinogenesis by impairing M1 Immune Responses. *Cancer Res*. 2018. PMID: 29853605
106. Sokolov I, Dokukin ME: AFM indentation analysis of cells to study cell mechanics and pericellular coat. *Methods Mol Biol*. 2018. 1814:449-468. PMID: 29956249
107. Syed S, Dinallo V, Iqbal NT, Di Iorio L, Di Fusco D, Guleria S, Amadi BC, Sadiq K, Moskaluk C, Ali SA, Kelly P, Monteleone G: High SMAD7 and p-SMAD2,3 expression is associated with environmental enteropathy in children. *PLoS Negl Trop Dis*. 2018. 12:e0006224. PMID: 29415065. PMC ID:PMC5819826
108. Sun Z, Wang CY, Lawson DA, Kwek S, Velozo HG, Owyong M, Lai MD, Fong L, Wilson M, Su H, Werb Z, Cooke DL: Single-cell RNA sequencing reveals gene expression signatures of breast cancer-associated endothelial cells. *Oncotarget*. 2018. 9:10945-10961. PMID: 29541388. PMC ID:PMC5834272
109. Szot C, Saha S, Zhang XM, Zhu Z, Hilton MB, Morris K, Seaman S, Dunleavy JM, Hsu KS, Yu GJ, Morris H, Swing DA, Haines DC, Wang Y, Hwang J, Feng Y, Welsch D, DeCrescenzo G, Chaudhary A, Zudaire E, Dimitrov DS, St Croix B: Tumor stroma-targeted antibody-drug conjugate triggers localized anticancer drug release. *J Clin Invest*. 2018. PMID: 29863500. PMC ID:PMC6025988
110. Tanner JA, Zhu AZ, Claw KG, Prasad B, Korchina V, Hu J, Doddapaneni H, Muzny DM, Schuetz EG, Lerman C, Thummel KE, Scherer SE, Tyndale RF: Novel CYP2A6 diplotypes identified through next-generation sequencing are associated with in-vitro and in-vivo nicotine metabolism. *Pharmacogenet Genomics*. 2018. 28:7-16. PMID: 29232328. PMC ID:PMC5729933
111. Tatomir A, Tegla CA, Martin A, Boodhoo D, Nguyen V, Sugarman AJ, Mekala A, Anselmo F, Talpos-Caia A, Cudrici C, Badea TC, Rus V, Rus H: RGC-32 regulates reactive astrocytosis and extracellular matrix deposition in experimental autoimmune encephalomyelitis. *Immunol Res*. 2018. PMID: 30006805
112. Tong Y, Park S, Wu D, Harris TE, Moskaluk CA, Brautigam DL, Fu Z: Modulation of GSK3beta autoinhibition by Thr-7 and Thr-8. *FEBS Lett*. 2018. 592:537-546. PMID: 29377106. PMC ID:PMC5829016
113. Trifonova RT, Barteneva NS: Quantitation of IRF3 nuclear translocation in heterogeneous cellular populations from cervical tissue using imaging flow cytometry. *Methods Mol Biol*. 2018. 1745:125-153. PMID: 29476467
114. Vaklavas C, Zinn KR, Samuel SL, Meng Z, Grizzle WE, Choi H, Blume SW: Translational control of the undifferentiated phenotype in ERpositive breast tumor cells: Cytoplasmic localization of ERalpha and impact of IRES inhibition. *Oncol Rep*. 2018. 39:2482-2498. PMID: 29620220. PMC ID:PMC5983923

115. Valanejad L, Ghareeb M, Shiffka S, Nadolny C, Chen Y, Guo L, Verma R, You S, Akhlaghi F, Deng R: Dysregulation of Delta(4)-3-oxosteroid 5beta-reductase in diabetic patients: Implications and mechanisms. *Mol Cell Endocrinol*. 2018. 470:127-141. PMID: 29024782. PMC ID:PMC5891389
116. Velasquez C, Amako Y, Harold A, Toptan T, Chang Y, Shuda M: Characterization of a Merkel cell polyomavirus-positive Merkel cell carcinoma cell line CVG-1. *Front Microbiol*. 2018. 9:713. PMID: 29696010. PMC ID:PMC5905237
117. Wallace TJ, Qian J, Avital I, Bay C, Man YG, Wellman LL, Moskaluk C, Troyer D, Ramnani D, Stojadinovic A: Technical feasibility of tissue microarray (TMA) analysis of tumor-associated immune response in prostate cancer. *J Cancer*. 2018. 9:2191-2202. PMID: 29937939. PMC ID:PMC6010688
118. Wang X, Li G, Luo Q, Gan C: Identification of crucial genes associated with esophageal squamous cell carcinoma by gene expression profile analysis. *Oncol Lett*. 2018. 15:8983-8990. PMID: 29844815. PMC ID:PMC5958829
119. Wiemels JL, Walsh KM, de Smith AJ, Metayer C, Gonseth S, Hansen HM, Francis SS, Ojha J, Smirnov I, Barcellos L, Xiao X, Morimoto L, McKean-Cowdin R, Wang R, Yu H, Hoh J, DeWan AT, Ma X: GWAS in childhood acute lymphoblastic leukemia reveals novel genetic associations at chromosomes 17q12 and 8q24.21. *Nat Commun*. 2018. 9:286. PMID: 29348612. PMC ID:PMC5773513
120. Winkler JW, Libreros S, De La Rosa X, Sansbury BE, Norris PC, Chiang N, Fichtner D, Keyes GS, Wourms N, Spite M, Serhan CN: Structural insights into Resolvin D4 actions and further metabolites via a new total organic synthesis and validation. *J Leukoc Biol*. 2018. PMID: 29377345
121. Xing F, Liu Y, Wu SY, Wu K, Sharma S, Mo YY, Feng J, Sanders S, Jin G, Singh R, Vidi PA, Tyagi A, Chan MD, Ruiz J, Debinski W, Pasche BC, Lo HW, Metheny-Barlow LJ, D'Agostino RB, Jr., Watabe K: Loss of XIST in breast cancer activates MSN-c-Met and reprograms microglia via exosomal mirna to promote brain metastasis. *Cancer Res*. 2018. PMID: 30026327
122. Zare A, Petrova A, Agoumi M, Amstrong H, Bigras G, Tonkin K, Wine E, Baksh S: RIPK2: New elements in modulating inflammatory breast cancer pathogenesis. *Cancers (Basel)*. 2018. 10:PMID: 29874851. PMC ID:PMC6025367
123. Zhang W, Chen JH, Shan T, Aguilera-Barrantes I, Wang LS, Huang TH, Rader JS, Sheng X, Huang YW: miR-137 is a tumor suppressor in endometrial cancer and is repressed by DNA hypermethylation. *Lab Invest*. 2018. PMID: 29955087
124. Zhong G, James MO, Smeltz MG, Jahn SC, Langae T, Simpson P, Stacpoole PW: Age-related changes in expression and activity of human hepatic mitochondrial glutathione transferase Zeta1. *Drug Metab Dispos*. 2018. 46:1118-1128. PMID: 29853471

2017

1. Adams CM, Kim AS, Mitra R, Choi JK, Gong JZ, Eischen CM: BCL-W has a fundamental role in B cell survival and lymphomagenesis. *J Clin Invest*. 2017. 127:635-650. PMID: 28094768. PMC ID:PMC5272186
2. Agere SA, Akhtar N, Watson JM, Ahmed S: RANTES/CCL5 induces collagen degradation by activating MMP-1 and MMP-13 expression in human rheumatoid arthritis synovial fibroblasts. *Front Immunol*. 2017. 8:1341. PMID: 29093715. PMC ID:PMC5651228
3. Ahmad R, Kumar B, Chen Z, Chen X, Muller D, Lele SM, Washington MK, Batra SK, Dhawan P, Singh AB: Loss of claudin-3 expression induces IL6/gp130/Stat3 signaling to promote colon cancer malignancy by hyperactivating Wnt/beta-catenin signaling. *Oncogene*. 2017. 36:6592-6604. PMID: 28783170
4. Arini A, Mittal K, Dornbos P, Head J, Rutkiewicz J, Basu N: A cell-free testing platform to screen chemicals of potential neurotoxic concern across twenty vertebrate species. *Environ Toxicol Chem*. 2017. 36:3081-3090. PMID: 28594109
5. Arnold Egloff SA, Du L, Loomans HA, Starchenko A, Su PF, Ketova T, Knoll PB, Wang J, Haddad AQ, Fadare O, Cates JM, Lotan Y, Shyr Y, Clark PE, Zijlstra A: Shed urinary ALCAM is an independent prognostic biomarker of three-year overall survival after cystectomy in patients with bladder cancer. *Oncotarget*. 2017. 8:722-741. PMID: 27894096. PMC ID:PMC5352192
6. Aronoff DM, Correa H, Rogers LM, Arav-Boger R, Alcendor DJ: Placental pericytes and cytomegalovirus infectivity: Implications for HCMV placental pathology and congenital disease. *Am J Reprod Immunol*. 2017. 78:PMID: 28741727. PMC ID:PMC5561471
7. Augert A, Zhang Q, Bates B, Cui M, Wang X, Wildey G, Dowlati A, MacPherson D: Small cell lung cancer exhibits frequent inactivating mutations in the histone methyltransferase KMT2D/MLL2: CALGB 151111 (Alliance). *J Thorac Oncol*. 2017. 12:704-713. PMID: 28007623. PMC ID:PMC5669801
8. Balakrishnan A, Goodpaster T, Randolph-Habecker J, Hoffstrom BG, Jalikis FG, Koch LK, Berger C, Kosasih PL, Rajan A, Sommermeyer D, Porter PL, Riddell SR: Analysis of ROR1 protein expression in human cancer and normal tissues. *Clin Cancer Res*. 2017. 23:3061-3071. PMID: 27852699. PMC ID:PMC5440207
9. Bhardwaj V, Gokulan RC, Horvat A, Yermalitskaya L, Korolkova O, Washington KM, El-Rifai W, Dikalov SI, Zaika AI: Activation of NADPH oxidases leads to DNA damage in esophageal cells. *Sci Rep*. 2017. 7:9956. PMID: 28855537. PMC ID:PMC5577233
10. Bhutiani N, Grizzle WE, Galandiuk S, Otali D, Dryden GW, Egilmez NK, McNally LR: Noninvasive imaging of colitis using multispectral optoacoustic tomography. *J Nucl Med*. 2017. 58:1009-1012. PMID: 27908970. PMC ID:PMC5450363
11. Cai X, Caballero-Benitez A, Gewe MM, Jenkins IC, Drescher CW, Strong RK, Spies T, Groh V: Control of tumor initiation by NKG2D naturally expressed on ovarian cancer cells. *Neoplasia*. 2017. 19:471-482. PMID: 28499126. PMC ID:PMC5429243

12. Campbell K, Gastier-Foster JM, Mann M, Naranjo AH, Van Ryn C, Bagatell R, Matthay KK, London WB, Irwin MS, Shimada H, Granger MM, Hogarty MD, Park JR, DuBois SG: Association of MYCN copy number with clinical features, tumor biology, and outcomes in neuroblastoma: A report from the Children's Oncology Group. *Cancer*. 2017. 123:4224-4235. PMID: 28696504. PMC ID:PMC5650521
13. Cavrois M, Banerjee T, Mukherjee G, Raman N, Hussien R, Rodriguez BA, Vasquez J, Spitzer MH, Lazarus NH, Jones JJ, Ochsenbauer C, McCune JM, Butcher EC, Arvin AM, Sen N, Greene WC, Roan NR: Mass cytometric analysis of HIV entry, replication, and remodeling in tissue CD4+ T cells. *Cell Rep*. 2017. 20:984-998. PMID: 28746881. PMC ID:PMC5560086
14. Chander AC, Manak MS, Varsanik JS, Hogan BJ, Mouraviev V, Zappala SM, Sant GR, Albala DM: Rapid and short-term extracellular matrix-mediated in vitro culturing of tumor and nontumor human primary prostate cells from fresh radical prostatectomy tissue. *Urology*. 2017. 105:91-100. PMID: 28365358
15. Chen C, Choudhury S, Wangsa D, Lescott CJ, Wilkins DJ, Sripadhan P, Liu X, Ried T, Moskaluk C, Wick MJ, Glasgow E, Schlegel R, Agarwal S: A multiplex preclinical model for adenoid cystic carcinoma of the salivary gland identifies regorafenib as a potential therapeutic drug. *Sci Rep*. 2017. 7:11410. PMID: 28900283. PMC ID:PMC5595986
16. Chen Z, Hu T, Zhu S, Mukaisho K, El-Rifai W, Peng DF: Glutathione peroxidase 7 suppresses cancer cell growth and is hypermethylated in gastric cancer. *Oncotarget*. 2017. 8:54345-54356. PMID: 28903346. PMC ID:PMC5589585
17. Chen Z, Soutto M, Rahman B, Fazili MW, Peng D, Blanca Piazuelo M, Chen H, Kay Washington M, Shyr Y, El-Rifai W: Integrated expression analysis identifies transcription networks in mouse and human gastric neoplasia. *Genes Chromosomes Cancer*. 2017. 56:535-547. PMID: 28281307. PMC ID:PMC5524517
18. Cherian A, Wallace L, Aikhionbare FO: Expression of mitochondrial genome alteration as a potential biomarker for colorectal adenopolyps in relative to age and race,. *Georgia Journal of Science*. 2017. 75:e54
19. Chevrier S, Levine JH, Zanotelli VRT, Silina K, Schulz D, Bacac M, Ries CH, Ailles L, Jewett MAS, Moch H, van den Broek M, Beisel C, Stadler MB, Gedye C, Reis B, Pe'er D, Bodenmiller B: An immune atlas of clear cell renal cell carcinoma. *Cell*. 2017. 169:736-749 e718. PMID: 28475899. PMC ID:PMC5422211
20. Choi H, Ignacio RMC, Lee ES, Wilson AJ, Khabele D, Son DS: Augmented serum amyloid A1/2 mediated by TNF-induced NF-kappaB in human serous ovarian epithelial tumors. *Immune Netw*. 2017. 17:121-127. PMID: 28458624. PMC ID:PMC5407984
21. Credle JJ, Itoh CY, Yuan T, Sharma R, Scott ER, Workman RE, Fan Y, Housseau F, Llosa NJ, Bell WR, Miller H, Zhang SX, Timp W, Larman HB: Multiplexed analysis of fixed tissue RNA using Ligation in situ Hybridization. *Nucleic Acids Res*. 2017. 45:e128. PMID: 28854731. PMC ID:PMC5737328
22. Damelin M, Bankovich A, Bernstein J, Lucas J, Chen L, Williams S, Park A, Aguilar J, Ernstoff E, Charati M, Dushin R, Aujay M, Lee C, Ramoth H, Milton M, Hampf J, Lazetic S, Pulito V, Rosfjord E, Sun Y, King L, Barletta F, Betts A, Guffroy M, Falahatpisheh H, O'Donnell CJ, Stull

R, Pysz M, Escarpe P, Liu D, Foord O, Gerber HP, Sapra P, Dylla SJ: A PTK7-targeted antibody-drug conjugate reduces tumor-initiating cells and induces sustained tumor regressions. *Sci Transl Med.* 2017. 9 (372) PMID: 28077676

23. Demark-Wahnefried W, Rais-Bahrami S, Desmond RA, Gordetsky JB, Hunter GR, Yang ES, Azrad M, Fruge AD, Tsuruta Y, Norian LA, Segal R, Grizzle WE: Presurgical weight loss affects tumour traits and circulating biomarkers in men with prostate cancer. *Br J Cancer.* 2017. 117:1303-1313. PMID: 28881355. PMC ID:PMC5672928
24. Devor EJ, Miecznikowski J, Schickling BM, Gonzalez-Bosquet J, Lankes HA, Thaker P, Argenta PA, Pearl ML, Zweizig SL, Mannel RS, Brown A, Ramirez NC, Ioffe OB, Park KJ, Creasman WT, Birrer MJ, Mutch D, Leslie KK: Dysregulation of miR-181c expression influences recurrence of endometrial endometrioid adenocarcinoma by modulating NOTCH2 expression: An NRG Oncology/Gynecologic Oncology Group study. *Gynecol Oncol.* 2017. 147:648-653. PMID: 28969912. PMC ID:PMC5698180
25. Dickerson MT, Vierra NC, Milian SC, Dadi PK, Jacobson DA: Osteopontin activates the diabetes-associated potassium channel TALK-1 in pancreatic beta-cells. *PLoS One.* 2017. 12:e0175069. PMID: 28403169. PMC ID:PMC5389796
26. Dillon PM, Petroni GR, Horton BJ, Moskaluk CA, Fracasso PM, Douvas MG, Varhegyi N, Zaja-Milatovic S, Thomas CY: A Phase II study of Dovitinib in patients with recurrent or metastatic adenoid cystic carcinoma. *Clin Cancer Res.* 2017. 23:4138-4145. PMID: 28377480. PMC ID:PMC5540767
27. Doster RS, Kirk LA, Tetz LM, Rogers LM, Aronoff DM, Gaddy JA: Staphylococcus aureus infection of human gestational membranes induces bacterial biofilm formation and host production of cytokines. *J Infect Dis.* 2017. 215:653-657. PMID: 27436434. PMC ID:PMC5853272
28. Erdogan B, Ao M, White LM, Means AL, Brewer BM, Yang L, Washington MK, Shi C, Franco OE, Weaver AM, Hayward SW, Li D, Webb DJ: Cancer-associated fibroblasts promote directional cancer cell migration by aligning fibronectin. *J Cell Biol.* 2017. 216:3799-3816. PMID: 29021221. PMC ID:PMC5674895
29. Fan Q, Cai Q, Li P, Wang W, Wang J, Gerry E, Wang TL, Shih IM, Nephew KP, Xu Y: The novel ZIP4 regulation and its role in ovarian cancer. *Oncotarget.* 2017. 8:90090-90107. PMID: 29163813. PMC ID:PMC5685734
30. Fechtner S, Singh A, Chourasia M, Ahmed S: Molecular insights into the differences in anti-inflammatory activities of green tea catechins on IL-1beta signaling in rheumatoid arthritis synovial fibroblasts. *Toxicol Appl Pharmacol.* 2017. PMID: 28532672
31. Fischer MM, Cancilla B, Yeung VP, Cattaruzza F, Chartier C, Murriel CL, Cain J, Tam R, Cheng CY, Evans JW, O'Young G, Song X, Lewicki J, Kapoun AM, Gurney A, Yen WC, Hoey T: WNT antagonists exhibit unique combinatorial antitumor activity with taxanes by potentiating mitotic cell death. *Sci Adv.* 2017. 3:e1700090. PMID: 28691093. PMC ID:PMC5479655
32. Fishbein L, Leshchiner I, Walter V, Danilova L, Robertson AG, Johnson AR, Lichtenberg TM, Murray BA, Ghayee HK, Else T, Ling S, Jefferys SR, de Cubas AA, Wenz B, Korpershoek E, Amelio AL, Makowski L, Rathmell WK, Gimenez-Roqueplo AP, Giordano TJ, Asa SL, Tischler

AS, Pacak K, Nathanson KL, Wilkerson MD: Comprehensive molecular characterization of pheochromocytoma and paraganglioma. *Cancer Cell*. 2017. 31:181-193. PMID: 28162975. PMC ID:PMC5643159

33. Gadd S, Huff V, Walz AL, Ooms A, Armstrong AE, Gerhard DS, Smith MA, Auvil JMG, Meerzaman D, Chen QR, Hsu CH, Yan C, Nguyen C, Hu Y, Hermida LC, Davidsen T, Gesuwan P, Ma Y, Zong Z, Mungall AJ, Moore RA, Marra MA, Dome JS, Mullighan CG, Ma J, Wheeler DA, Hampton OA, Ross N, Gastier-Foster JM, Arold ST, Perlman EJ: A Children's Oncology Group and TARGET initiative exploring the genetic landscape of Wilms tumor. *Nat Genet*. 2017. 49:1487-1494. PMID: 28825729. PMC ID:PMC5712232
34. Galore-Haskel G, Baruch EN, Berg AL, Barshack I, Zilinsky I, Avivi C, Besser MJ, Schachter J, Markel G: Histopathological expression analysis of intercellular adhesion molecule 1 (ICAM-1) along development and progression of human melanoma. *Oncotarget*. 2017. 8:99580-99586. PMID: 29245925. PMC ID:PMC5725116
35. Garcia-Soto AE, Schreiber T, Strbo N, Ganjei-Azar P, Miao F, Koru-Sengul T, Simpkins F, Nieves-Neira W, Lucci J, 3rd, Podack ER: Cancer-testis antigen expression is shared between epithelial ovarian cancer tumors. *Gynecol Oncol*. 2017. 145:413-419. PMID: 28392126
36. Gaviglio AL, Knelson EH, Blobel GC: Heparin-binding epidermal growth factor-like growth factor promotes neuroblastoma differentiation. *FASEB J*. 2017. 31:1903-1915. PMID: 28174207. PMC ID:PMC5388552
37. Ghazanfar S, Fatima I, Aslam M, Musharraf SG, Sherman NE, Moskaluk C, Fox JW, Akhtar MW, Sadaf S: Identification of actin beta-like 2 (ACTBL2) as novel, upregulated protein in colorectal cancer. *J Proteomics*. 2017. 152:33-40. PMID: 27989943
38. Ghosh AP, Willey CD, Anderson JC, Welaya K, Chen D, Mehta A, Ghatalia P, Madan A, Naik G, Sudarshan S, Sonpavde G: Kinomic profiling identifies focal adhesion kinase 1 as a therapeutic target in advanced clear cell renal cell carcinoma. *Oncotarget*. 2017. 8:29220-29232. PMID: 28418903. PMC ID:PMC5438725
39. Gillooly KM, Pulicicchio C, Pattoli MA, Cheng L, Skala S, Heimrich EM, McIntyre KW, Taylor TL, Kukral DW, Dudhgaonkar S, Nagar J, Banas D, Watterson SH, Tino JA, Fura A, Burke JR: Bruton's tyrosine kinase inhibitor BMS-986142 in experimental models of rheumatoid arthritis enhances efficacy of agents representing clinical standard-of-care. *PLoS One*. 2017. 12:e0181782. PMID: 28742141. PMC ID:PMC5524405
40. Glover J, Man TK, Barkauskas DA, Hall D, Tello T, Sullivan MB, Gorlick R, Janeway K, Grier H, Lau C, Toretsky JA, Borinstein SC, Khanna C, Fan TM: Osteosarcoma enters a post genomic era with in silico opportunities: Generation of the High Dimensional Database for facilitating sarcoma biology research: A report from the Children's Oncology Group and the QuadW Foundation. *PLoS One*. 2017. 12:e0181204. PMID: 28732082. PMC ID:PMC5521774
41. Gomez JM, Patrie JT, Bleibel W, Frye JW, Sauer BG, Shami VM, Stelow EB, Moskaluk CA, Wang AY: Gastric intestinal metaplasia is associated with gastric dysplasia but is inversely correlated with esophageal dysplasia. *World J Gastrointest Endosc*. 2017. 9:61-69. PMID: 28250898. PMC ID:PMC5311474

42. Gomez-Sanchez CE, Lewis M, Nanba K, Rainey WE, Kuppusamy M, Gomez-Sanchez EP: Development of monoclonal antibodies against the human 3beta-hydroxysteroid dehydrogenase/isomerase isozymes. *Steroids*. 2017. 127:56-61. PMID: 28863887. PMC ID:PMC5628156
43. Gonzalez RS, Cates JMM, Revetta F, McMahon LA, Washington K: Gastric carcinomas with lymphoid stroma: Categorization and comparison with solid-type colonic carcinomas. *Am J Clin Pathol*. 2017. 148:477-484. PMID: 29126141
44. Gonzalez RS, Gilger MA, Huh WJ, Washington MK: The spectrum of histologic findings in hepatic outflow obstruction. *Arch Pathol Lab Med*. 2017. 141:98-103. PMID: 27681331.
45. Gonzalez RS, Huh WJ, Cates JM, Washington K, Beauchamp RD, Coffey RJ, Shi C: Micropapillary colorectal carcinoma: clinical, pathological and molecular properties, including evidence of epithelial-mesenchymal transition. *Histopathology*. 2017. 70:223-231. PMID: 27560620. PMC ID:PMC5921077
46. Grahek M, Ptak A, Kalyuzhny AE: High-Sensitivity IHC Detection of Phosphorylated p27/Kip1 in Human Tissues Using Secondary Antibody Conjugated to Polymer-HRP. In: Kalyuzhny A. (eds) Signal Transduction Immunohistochemistry. Methods in Molecular Biology, vol 1554. Humana Press, New York, NY. 2017
47. Greer S, Han T, Dieguez C, McLean N, Saer R, Reis I, Levi J, Marquez VE: Enzyme-driven chemo-and radiation-therapy with 12 pyrimidine nucleoside analogs not yet in the clinic. *Anticancer Agents Med Chem*. 2017. 17:250-264. PMID: 27745548
48. Gruber HE, Ingram JA, Hoelscher GL, Marrero E, Hanley EN, Jr.: Mucin 1, a signal transduction membrane-bound mucin, is present in human disc tissue and is downregulated in vitro by exposure to IL-1ss or TNF-alpha. *BMC Musculoskelet Disord*. 2017. 18:182. PMID: 28482827. PMC ID:PMC5422927
49. Gruber HE, Jones B, Marrero E, Hanley EN, Jr.: Proinflammatory cytokines IL-1beta and TNF-alpha influence human annulus cell signaling cues for neurite growth: in vitro coculture studies. *Spine (Phila Pa 1976)*. 2017. 42:1529-1537. PMID: 28306638
50. Gruber HE, Marrero E, Ingram JA, Hoelscher GL, Hanley EN, Jr.: Constitutive expression of IL-22 in the human intervertebral disc and its reduction by exposure to pro-inflammatory cytokines in vitro. *Biotech Histochem*. 2017. 1-8. PMID: 28409653
51. Gruber HE, Marrero E, Ingram JA, Hoelscher GL, Hanley EN, Jr.: The chemokine, CXCL16, and its receptor, CXCR6, are constitutively expressed in human annulus fibrosus and expression of CXCL16 is up-regulated by exposure to IL-1ss in vitro. *Biotech Histochem*. 2017. 92:7-14. PMID: 27869573
52. Gutknecht MF, Seaman ME, Ning B, Cornejo DA, Mugler E, Antkowiak PF, Moskaluk CA, Hu S, Epstein FH, Kelly KA: Identification of the S100 fused-type protein hornerin as a regulator of tumor vascularity. *Nat Commun*. 2017. 8:552. PMID: 28916756. PMC ID:PMC5601918
53. Hardbower DM, Coburn LA, Asim M, Singh K, Sierra JC, Barry DP, Gobert AP, Piazuolo MB, Washington MK, Wilson KT: EGFR-mediated macrophage activation promotes colitis-

associated tumorigenesis. *Oncogene*. 2017. 36:3807-3819. PMID: 28263971. PMC ID:PMC5501754

54. Hatten KM, O'Malley BW, Jr., Bur AM, Patel MR, Rassekh CH, Newman JG, Cannady SB, Chalian AA, Hodnett BL, Lin A, Lukens JN, Cohen RB, Bauml JM, Montone KT, Livolsi VA, Weinstein GS: Transoral robotic surgery-assisted endoscopy with primary site detection and treatment in occult mucosal primaries. *JAMA Otolaryngol Head Neck Surg*. 2017. 143:267-273. PMID: 27930761
55. Hefti E, Bard J, Blanco JG: Analysis of heteroplasmic variants in the cardiac mitochondrial genome of individuals with Down Syndrome. *Hum Mutat*. 2017. 38:48-54. PMID: 27594409. PMC ID:PMC5154832
56. Hein DW, Doll MA: Catalytic properties and heat stabilities of novel recombinant human N-acetyltransferase 2 allozymes support existence of genetic heterogeneity within the slow acetylator phenotype. *Arch Toxicol*. 2017. 91:2827-2835. PMID: 28523442. PMC ID:PMC5710007
57. Herati RS, Muselman A, Vella L, Bengsch B, Parkhouse K, Del Alcazar D, Kotzin J, Doyle SA, Tebas P, Hensley SE, Su LF, Schmader KE, Wherry EJ: Successive annual influenza vaccination induces a recurrent oligoclonotypic memory response in circulating T follicular helper cells. *Sci Immunol*. 2017. 2:PMID: 28620653. PMC ID:PMC5469419
58. Hoang D, Broer N, Sosa JA, Abitbol N, Yao X, Li F, Rivera-Molina F, Toomre DK, Roman SA, Sue G, Kim S, Li AY, Callender GG, Simpson C, Narayan D: Leptin is produced by parathyroid glands and stimulates parathyroid hormone secretion. *Ann Surg*. 2017. 266:1075-1083. PMID: 27611607
59. House L, Seminerio M, Mirkov S, Ramirez J, Skor M, Sachleben J, Isikbay M, Singhal H, Greene G, Vander Griend D, Conzen S, Ratain MJ: Metabolism of megestrol acetate in vitro and the role of oxidative metabolites. *Xenobiotica*. 2017. 1-39. PMID: 29050522
60. Huang W, Mehta D, Sif S, Kent LN, Jacob ST, Ghoshal K, Mehta KD: Dietary fat/cholesterol-sensitive PKC β -RB signaling: Potential role in NASH/HCC axis. *Oncotarget*. 2017. 8:73757-73765. PMID: 29088742. PMC ID:PMC5650297
61. Jacobson IM, Washington MK, Buti M, Thompson A, Afdhal N, Flisiak R, Akarca US, Tchernev KG, Flaherty JF, Aguilar Schall R, Myers RP, Subramanian GM, McHutchison JG, Younossi Z, Marcellin P, Patel K: Factors associated with persistent increase in level of alanine aminotransferase in patients with chronic hepatitis B receiving oral antiviral therapy. *Clin Gastroenterol Hepatol*. 2017. PMID: 28215615
62. Janouskova H, El Tekle G, Bellini E, Udeshi ND, Rinaldi A, Ulbricht A, Bernasocchi T, Civenni G, Losa M, Svinkina T, Bielski CM, Kryukov GV, Cascione L, Napoli S, Enchev RI, Mutch DG, Carney ME, Berchuck A, Winterhoff BJN, Broaddus RR, Schraml P, Moch H, Bertoni F, Catapano CV, Peter M, Carr SA, Garraway LA, Wild PJ, Theurillat JP: Opposing effects of cancer-type-specific SPOP mutants on BET protein degradation and sensitivity to BET inhibitors. *Nat Med*. 2017. 23:1046-1054. PMID: 28805821. PMC ID:PMC5592092

63. Jayabal P, Houghton PJ, Shiio Y: EWS-FLI-1 creates a cell surface microenvironment conducive to IGF signaling by inducing pappalysin-1. *Genes Cancer*. 2017. 8:762-770. PMID: 29321818. PMC ID:PMC5755722
64. Jeske YW, Ali S, Byron SA, Gao F, Mannel RS, Ghebre RG, DiSilvestro PA, Lele SB, Pearl ML, Schmidt AP, Lankes HA, Ramirez NC, Rasty G, Powell M, Goodfellow PJ, Pollock PM: FGFR2 mutations are associated with poor outcomes in endometrioid endometrial cancer: An NRG Oncology/Gynecologic Oncology Group study. *Gynecol Oncol*. 2017. 145:366-373. PMID: 28314589. PMC ID:PMC5433848
65. Jones RS, Parker MD, Morris ME: Quercetin, morin, luteolin, and phloretin are dietary flavonoid inhibitors of monocarboxylate transporter 6. *Mol Pharm*. 2017. 14:2930-2936. PMID: 28513167. PMC ID:PMC5585036
66. Jorgens DM, Inman JL, Wojcik M, Robertson C, Palsdottir H, Tsai WT, Huang H, Bruni-Cardoso A, Lopez CS, Bissell MJ, Xu K, Auer M: Deep nuclear invaginations are linked to cytoskeletal filaments - integrated bioimaging of epithelial cells in 3D culture. *J Cell Sci*. 2017. 130:177-189. PMID: 27505896. PMC ID:PMC5394780
67. Jovanovic B, Sheng Q, Seitz RS, Lawrence KD, Morris SW, Thomas LR, Hout DR, Schweitzer BL, Guo Y, Pietenpol JA, Lehmann BD: Comparison of triple-negative breast cancer molecular subtyping using RNA from matched fresh-frozen versus formalin-fixed paraffin-embedded tissue. *BMC Cancer*. 2017. 17:241. PMID: 28376728. PMC ID:PMC5379658
68. Kannan A, Hertweck KL, Philley JV, Wells RB, Dasgupta S: Genetic mutation and exosome signature of human papilloma virus associated oropharyngeal cancer. *Sci Rep*. 2017. 7:46102. PMID: 28383029. PMC ID:PMC5382706
69. Korir ML, Laut C, Rogers LM, Plemmons JA, Aronoff DM, Manning SD: Differing mechanisms of surviving phagosomal stress among group B Streptococcus strains of varying genotypes. *Virulence*. 2017. 8:924-937. PMID: 27791478. PMC ID:PMC5626345
70. Kwon H, Haudenschild AK, Brown WE, Vapniarsky N, Paschos NK, Arzi B, Hu JC, Athanasiou KA: Tissue engineering potential of human dermis-isolated adult stem cells from multiple anatomical locations. *PLoS One*. 2017. 12:e0182531. PMID: 28767737. PMC ID:PMC5540597
71. Li C, Singh B, Graves-Deal R, Ma H, Starchenko A, Fry WH, Lu Y, Wang Y, Bogatcheva G, Khan MP, Milne GL, Zhao S, Ayers GD, Li N, Hu H, Washington MK, Yeatman TJ, McDonald OG, Liu Q, Coffey RJ: Three-dimensional culture system identifies a new mode of cetuximab resistance and disease-relevant genes in colorectal cancer. *Proc Natl Acad Sci U S A*. 2017. 114:E2852-E2861. PMID: 28320945. PMC ID:PMC5389279
72. Li G, Larregina AT, Domsic RT, Stolz DB, Medsger TA, Jr., Lafyatis R, Fuschiotti P: Skin-resident effector memory CD8(+)CD28(-) T cells exhibit a profibrotic phenotype in patients with systemic sclerosis. *J Invest Dermatol*. 2017. 137:1042-1050. PMID: 28012718. PMC ID:PMC5433864
73. Liang W, Zhou X, Yao L, Liu B: Cryopreservation-altered expression of RNA and protein markers in biological specimens. *Biopreserv Biobank*. 2017. 15:176-181. PMID: 27618161

74. Lin CA, Rhodes CT, Lin C, Phillips JJ, Berger MS: Comparative analyses identify molecular signature of MRI-classified SVZ-associated glioblastoma. *Cell Cycle*. 2017. 16:765-775. PMID: 28278055. PMC ID:PMC5405724
75. Little EC, Kubic JD, Salgia R, Grippo PJ, Lang D: Canonical and alternative transcript expression of PAX6 and CXCR4 in pancreatic cancer. *Oncol Lett*. 2017. 13:4027-4034. PMID: 28588695. PMC ID:PMC5452919
76. Liu H, Antony S, Roy K, Juhasz A, Wu Y, Lu J, Meitzler JL, Jiang G, Polley E, Doroshov JH: Interleukin-4 and interleukin-13 increase NADPH oxidase 1-related proliferation of human colon cancer cells. *Oncotarget*. 2017. 8:38113-38135. PMID: 28498822. PMC ID:PMC5503519
77. Liu J, Shi H, Li X, Chen G, Larsson C, Lui WO: miR223p regulates cell growth and apoptosis via FBXW7 suggesting an oncogenic role in human testicular germ cell tumors. *Int J Oncol*. 2017. 50:356-364. PMID: 28000896. PMC ID:PMC5238776
78. Long A, Napierala JS, Polak U, Hauser L, Koeppen AH, Lynch DR, Napierala M: Somatic instability of the expanded GAA repeats in Friedreich's ataxia. *PLoS One*. 2017. 12:e0189990. PMID: 29261783. PMC ID:PMC5736210
79. Lu C, Paschall AV, Shi H, Savage N, Waller JL, Sabbatini ME, Oberlies NH, Pearce C, Liu K: The MLL1-H3K4me3 axis-mediated PD-L1 expression and pancreatic cancer immune evasion. *J Natl Cancer Inst*. 2017. 109:PMID: 28131992. PMC ID:PMC5291187
80. Luna JM, Barajas JM, Teng KY, Sun HL, Moore MJ, Rice CM, Darnell RB, Ghoshal K: Argonaute CLIP defines a deregulated miR-122-bound transcriptome that correlates with patient survival in human liver cancer. *Mol Cell*. 2017. PMID: 28735896. PMCID:PMC5603316
81. McDaniel JM, Varley KE, Gertz J, Savic DS, Roberts BS, Bailey SK, Shevde LA, Ramaker RC, Lasseigne BN, Kirby MK, Newberry KM, Partridge EC, Jones AL, Boone B, Levy SE, Oliver PG, Sexton KC, Grizzle WE, Forero A, Buchsbaum DJ, Cooper SJ, Myers RM: Genomic regulation of invasion by STAT3 in triple negative breast cancer. *Oncotarget*. 2017. 8:8226-8238. PMID: 28030809. PMC ID:PMC5352396
82. McDonough EM, Barrett CW, Parang B, Mittal MK, Smith JJ, Bradley AM, Choksi YA, Coburn LA, Short SP, Thompson JJ, Zhang B, Poindexter SV, Fischer MA, Chen X, Li J, Revetta FL, Naik R, Washington MK, Rosen MJ, Hiebert SW, Wilson KT, Williams CS: MTG16 is a tumor suppressor in colitis-associated carcinoma. *JCI Insight*. 2017. 2:PMID: 28814670. PMC ID:PMC5621889
83. McKinley ET, Sui Y, Al-Kofahi Y, Millis BA, Tyska MJ, Roland JT, Santamaria-Pang A, Ohland CL, Jobin C, Franklin JL, Lau KS, Gerdes MJ, Coffey RJ: Optimized multiplex immunofluorescence single-cell analysis reveals tuft cell heterogeneity. *JCI Insight*. 2017. 2:PMID: 28570279. PMC ID:PMC5453701
84. Miampamba M, Liu J, Harootunian A, Gale AJ, Baird S, Chen SL, Nguyen QT, Tsien RY, Gonzalez JE: Sensitive in vivo visualization of breast cancer using ratiometric protease-activatable fluorescent imaging agent, AVB-620. *Theranostics*. 2017. 7:3369-3386. PMID: 28900516. PMC ID:PMC5595138

85. Micevic G, Theodosakis N, Taube JM, Bosenberg MW, Rodic N: Attenuation of genome-wide 5-methylcytosine level is an epigenetic feature of cutaneous malignant melanomas. *Melanoma Res.* 2017. 27:85-96. PMID: 27997431. PMC ID:PMC5812886
86. Nakase H, Sakuma S, Fukuchi T, Yoshino T, Mohri K, Miyata K, Kumagai H, Hiwatari KI, Tsubaki K, Ikejima T, Tobita E, Zhu M, Wilson KJ, Washington K, Gore JC, Pham W: Evaluation of a novel fluorescent nanobeacon for targeted imaging of Thomsen-Friedenreich associated colorectal cancer. *Int J Nanomedicine.* 2017. 12:1747-1755. PMID: 28280339. PMC ID:PMC5340240
87. Nandhu MS, Behera P, Bhaskaran V, Longo SL, Barrera-Arenas LM, Sengupta S, Rodriguez-Gil DJ, Chiocca EA, Viapiano MS: Development of a function-blocking antibody against fibulin-3 as a targeted reagent for glioblastoma. *Clin Cancer Res.* 2017. PMID: 29146721.
88. Ndaw VS, Abebayehu D, Spence AJ, Paez PA, Kolawole EM, Taruselli MT, Caslin HL, Chumanevich AP, Paranjape A, Baker B, Barnstein BO, Haque TT, Kiwanuka KN, Oskeritzian CA, Ryan JJ: TGF-beta1 suppresses IL-33-induced mast cell function. *J Immunol.* 2017. 199:866-873. PMID: 28637902
89. Neidleman JA, Chen JC, Kohgadai N, Muller JA, Laustsen A, Thavachelvam K, Jang KS, Sturzel CM, Jones JJ, Ochsenbauer C, Chitre A, Somsouk M, Garcia MM, Smith JF, Greenblatt RM, Munch J, Jakobsen MR, Giudice LC, Greene WC, Roan NR: Mucosal stromal fibroblasts markedly enhance HIV infection of CD4+ T cells. *PLoS Pathog.* 2017. 13:e1006163. PMID: 28207890. PMC ID:PMC5312882
90. Niazi MKK, Chung JH, Heaton-Johnson KJ, Martinez D, Castellanos R, Irwin MS, Master SR, Pawel BR, Gurcan MN, Weiser DA: Advancing clinicopathologic diagnosis of high-risk neuroblastoma using computerized image analysis and proteomic profiling. *Pediatr Dev Pathol.* 2017. 20:394-402. PMID: 28420318
91. Nolo R, Herbrich S, Rao A, Zweidler-McKay P, Kannan S, Gopalakrishnan V: Targeting P-selectin blocks neuroblastoma growth. *Oncotarget.* 2017. 8:86657-86670. PMID: 29156825. PMC ID:PMC5689715
92. Norquist BM, Brady MF, Harrell MI, Walsh T, Lee MK, Gulsuner S, Bernards SS, Casadei S, Burger RA, Tewari KS, Backes F, Mannel RS, Glaser G, Bailey C, Rubin S, Soper J, Lankes HA, Ramirez NC, King MC, Birrer MJ, Swisher EM: Mutations in homologous recombination genes and outcomes in ovarian carcinoma patients in GOG 218: An NRG Oncology/Gynecologic Oncology Group Study. *Clin Cancer Res.* 2017. PMID: 29191972
93. Northcott PA, Buchhalter I, Morrissy AS, Hovestadt V, Weischenfeldt J, Ehrenberger T, Grobner S, Segura-Wang M, Zichner T, Rudneva VA, Warnatz HJ, Sidiropoulos N, Phillips AH, Schumacher S, Kleinheinz K, Waszak SM, Erkek S, Jones DTW, Worst BC, Kool M, Zapatka M, Jager N, Chavez L, Hutter B, Bieg M, Paramasivam N, Heinold M, Gu Z, Ishaque N, Jager-Schmidt C, Imbusch CD, Jugold A, Hubschmann D, Risch T, Amstislavskiy V, Gonzalez FGR, Weber UD, Wolf S, Robinson GW, Zhou X, Wu G, Finkelstein D, Liu Y, Cavalli FMG, Luu B, Ramaswamy V, Wu X, Koster J, Ryzhova M, Cho YJ, Pomeroy SL, Herold-Mende C, Schuhmann M, Ebinger M, Liao LM, Mora J, McLendon RE, Jabado N, Kumabe T, Chuah E, Ma Y, Moore RA, Mungall AJ, Mungall KL, Thiessen N, Tse K, Wong T, Jones SJM, Witt O, Milde T, Von Deimling A, Capper D, Korshunov A, Yaspo ML, Kriwacki R, Gajjar A, Zhang J, Beroukhim R, Fraenkel E, Korbel JO, Brors B, Schlesner M, Eils R, Marra MA, Pfister SM,

Taylor MD, Lichter P: The whole-genome landscape of medulloblastoma subtypes. *Nature*. 2017. 547:311-317. PMID: 28726821

94. Ozata DM, Li X, Lee L, Liu J, Warsito D, Hajeri P, Hultman I, Fotouhi O, Marklund S, Ahrlund-Richter L, Juhlin CC, Larsson C, Lui WO: Loss of miR-514a-3p regulation of PEG3 activates the NF-kappa B pathway in human testicular germ cell tumors. *Cell Death Dis*. 2017. 8:e2759. PMID: 28471449
95. Pan P, C WS, Wang HT, Oshima K, Huang YW, Yu J, Zhang J, M MY, K AA, W RD, Chen X, Wang LS: Loss of free fatty acid receptor 2 enhances colonic adenoma development and reduces the chemopreventive effects of black raspberries in ApcMin/+ mice. *Carcinogenesis*. 2017. 38:86-93. PMID: 27866157. PMC ID:PMC5219051
96. Panaccione A, Zhang Y, Ryan M, Moskaluk CA, Anderson KS, Yarbrough WG, Ivanov SV: MYB fusions and CD markers as tools for authentication and purification of cancer stem cells from salivary adenoid cystic carcinoma. *Stem Cell Res*. 2017. 21:160-166. PMID: 28500913
97. Pankratz DG, Choi Y, Imtiaz U, Fedorowicz GM, Anderson JD, Colby TV, Myers JL, Lynch DA, Brown KK, Flaherty KR, Steele MP, Groshong SD, Raghu G, Barth NM, Walsh PS, Huang J, Kennedy GC, Martinez FJ: Usual interstitial pneumonia can be detected in transbronchial biopsies using machine learning. *Ann Am Thorac Soc*. 2017. PMID: 28640655
98. Parang B, Kaz AM, Barrett CW, Short SP, Ning W, Keating CE, Mittal MK, Naik RD, Washington MK, Revetta FL, Smith JJ, Chen X, Wilson KT, Brand T, Bader DM, Tansey WP, Chen R, Brentnall TA, Grady WM, Williams CS: BVES regulates c-Myc stability via PP2A and suppresses colitis-induced tumourigenesis. *Gut*. 2017. 66:852-862. PMID: 28389570. PMC ID:PMC5385850
99. Parsons BL, McKim KL, Myers MB: Variation in organ-specific PIK3CA and KRAS mutant levels in normal human tissues correlates with mutation prevalence in corresponding carcinomas. *Environ Mol Mutagen*. 2017. 58:466-476. PMID: 28755461. PMC ID:PMC5601221
100. Peng D, Guo Y, Chen H, Zhao S, Washington K, Hu T, Shyr Y, El-Rifai W: Integrated molecular analysis reveals complex interactions between genomic and epigenomic alterations in esophageal adenocarcinomas. *Sci Rep*. 2017. 7:40729. PMID: 28102292. PMC ID:PMC5244375
101. Philley JV, Kannan A, Griffith DE, Devine MS, Benwill JL, Wallace RJ, Jr., Brown-Elliott BA, Thakkar F, Taskar V, Fox JG, Alqaid A, Bains H, Gupta S, Dasgupta S: Exosome secretome and mediated signaling in breast cancer patients with nontuberculous mycobacterial disease. *Oncotarget*. 2017. 8:18070-18081. PMID: 28160560. PMC ID:PMC5392308
102. Planells-Palop V, Hazazi A, Feichtinger J, Jezkova J, Thallinger G, Alsiwiehri NO, Almutairi M, Parry L, Wakeman JA, McFarlane RJ: Human germ/stem cell-specific gene TEX19 influences cancer cell proliferation and cancer prognosis. *Mol Cancer*. 2017. 16:84. PMID: 28446200. PMC ID:PMC5406905
103. Pohl MO, von Recum-Knepper J, Rodriguez-Frandsen A, Lanz C, Yanguéz E, Soonthornvacharin S, Wolff T, Chanda SK, Stertz S: Identification of Polo-like kinases as potential novel drug targets for influenza A virus. *Sci Rep*. 2017. 7:8629. PMID: 28819179. PMC ID:PMC5561215

104. Prigge ES, Arbyn M, von Knebel Doeberitz M, Reuschenbach M: Diagnostic accuracy of p16INK4a immunohistochemistry in oropharyngeal squamous cell carcinomas: A systematic review and meta-analysis. *Int J Cancer*. 2017. 140:1186-1198. PMID: 27859245
105. Quinones-Lombrana A, Blair RH, Blanco JG: Investigation of the role of DNA methylation in the expression of ERBB2 in human myocardium. *Gene*. 2017. 628:286-294. PMID: 28735727. PMC ID:PMC5595655
106. Randolph ME, Cleary MM, Bajwa Z, Svalina MN, Young MC, Mansoor A, Kaur P, Bult CJ, Goros MW, Michalek JE, Xiang S, Keck J, Krasnoperov V, Gill P, Keller C: EphB4/EphrinB2 therapeutics in Rhabdomyosarcoma. *PLoS One*. 2017. 12:e0183161. PMID: 28817624. PMC ID:PMC5560593
107. Richards Z, Batai K, Farhat R, Shah E, Makowski A, Gann PH, Kittles R, Nonn L: Prostatic compensation of the vitamin D axis in African American men. *JCI Insight*. 2017. 2:e91054. PMID: 28138564. PMCID: PMC5256134
108. Rihawi K, Gelsomino F, Sperandi F, Melotti B, Fiorentino M, Casolari L, Ardizzoni A: Pembrolizumab in the treatment of metastatic non-small cell lung cancer: a review of current evidence. *Ther Adv Respir Dis*. 2017. 11:353-373. PMID: 28818019. PMCID: PMC5933587
109. Sans M, Gharpure K, Tibshirani R, Zhang J, Liang L, Liu J, Young JH, Dood RL, Sood AK, Eberlin LS: Metabolic markers and statistical prediction of serous ovarian cancer aggressiveness by ambient ionization mass spectrometry imaging. *Cancer Res*. 2017. 77:2903-2913. PMID: 28416487. PMCID: PMC5750373
110. Sarkar S, O'Connell MR, Okugawa Y, Lee BS, Toiyama Y, Kusunoki M, Daboval RD, Goel A, Singh P: FOXD3 regulates CSC marker, DCLK1-S, and invasive potential: Prognostic implications in colon cancer. *Mol Cancer Res*. 2017. 15:1678-1691. PMID: 28851816. PMC ID:PMC5748292
111. Scazzocchio E, Oros D, Diaz D, Ramirez JC, Ricart M, Meler E, Gonzalez de Agüero R, Gratacos E, Figueras F: Impact of aspirin on trophoblastic invasion in women with abnormal uterine artery Doppler at 11-14 weeks: a randomized controlled study. *Ultrasound Obstet Gynecol*. 2017. 49:435-441. PMID: 27807890
112. Schulte ML, Hight MR, Ayers GD, Liu Q, Shyr Y, Washington MK, Manning HC: Non-invasive glutamine PET reflects pharmacological inhibition of BRAFV600E in vivo. *Mol Imaging Biol*. 2017. 19:421-428. PMID: 27770401
113. Schwarz F, Landig CS, Siddiqui S, Secundino I, Olson J, Varki N, Nizet V, Varki A: Paired Siglec receptors generate opposite inflammatory responses to a human-specific pathogen. *EMBO J*. 2017. 36:751-760. PMID: 28100677. PMC ID:PMC5350563
114. Scott MC, Temiz NA, Sarver AE, LaRue RS, Rathe SK, Varshney J, Wolf NK, Moriarity BS, O'Brien TD, Spector LG, Largaespada DA, Modiano JF, Subramanian S, Sarver AL: Comparative transcriptome analysis quantifies immune cell transcript levels, metastatic progression and survival in osteosarcoma. *Cancer Res*. 2017. PMID: 29066513

115. Seaman S, Zhu Z, Saha S, Zhang XM, Yang MY, Hilton MB, Morris K, Szot C, Morris H, Swing DA, Tessarollo L, Smith SW, Degrado S, Borkin D, Jain N, Scheiermann J, Feng Y, Wang Y, Li J, Welsch D, DeCrescenzo G, Chaudhary A, Zudaire E, Klarmann KD, Keller JR, Dimitrov DS, St Croix B: Eradication of tumors through simultaneous ablation of CD276/B7-H3-positive tumor cells and tumor vasculature. *Cancer Cell*. 2017. 31:501-515 e508. PMID: 28399408
116. Shah AA, La Fortune K, Miller C, Mills SE, Baloch Z, LiVolsi V, Dacic S, Mahaffey AL, Nikiforova M, Nikiforov YE, Seethala RR: Thyroid sclerosing mucoepidermoid carcinoma with eosinophilia: a clinicopathologic and molecular analysis of a distinct entity. *Mod Pathol*. 2017. 30:329-339. PMID: 27910944
117. Short SP, Kondo J, Smalley-Freed WG, Takeda H, Dohn MR, Powell AE, Carnahan RH, Washington MK, Tripathi M, Payne DM, Jenkins NA, Copeland NG, Coffey RJ, Reynolds AB: p120-Catenin is an obligate haploinsufficient tumor suppressor in intestinal neoplasia. *J Clin Invest*. 2017. PMID: 29130932
118. Siozopoulou P, Pauwels P: Pathology, Genetics, and Molecular Biology of Soft Tissue Tumors. In: *Imaging of Soft Tissue Tumors*. Eds: Vanhoenacker FM, Parizel PM, Gielen JL. Springer International Publishing, 2017, pp. 115-130
119. Siska PJ, Beckermann KE, Mason FM, Andrejeva G, Greenplate AR, Sendor AB, Chiang YJ, Corona AL, Gemta LF, Vincent BG, Wang RC, Kim B, Hong J, Chen CL, Bullock TN, Irish JM, Rathmell WK, Rathmell JC: Mitochondrial dysregulation and glycolytic insufficiency functionally impair CD8 T cells infiltrating human renal cell carcinoma. *JCI Insight*. 2017. 2:PMID: 28614802. PMC ID:PMC5470888
120. Skamagki M, Correia C, Yeung P, Baslan T, Beck S, Zhang C, Ross CA, Dang L, Liu Z, Giunta S, Chang TP, Wang J, Ananthanarayanan A, Bohndorf M, Bosbach B, Adjaye J, Funabiki H, Kim J, Lowe S, Collins JJ, Lu CW, Li H, Zhao R, Kim K: ZSCAN10 expression corrects the genomic instability of iPSCs from aged donors. *Nat Cell Biol*. 2017. 19:1037-1048. PMID: 28846095. PMC ID:PMC5843481
121. Slemmons KK, Crose LES, Riedel S, Sushnitha M, Belyea B, Linardic CM: A novel Notch-YAP circuit drives stemness and tumorigenesis in embryonal rhabdomyosarcoma. *Mol Cancer Res*. 2017. 15:1777-1791. PMID: 28923841. PMC ID:PMC5755394
122. Sloan EA, Moskaluk CA, Mills AM: Mucinous differentiation with tumor infiltrating lymphocytes is a feature of sporadically methylated endometrial carcinomas. *Int J Gynecol Pathol*. 2017. 36:205-216. PMID: 27513077
123. Song SJ, LiVolsi VA, Montone K, Baloch Z: Pre-operative features of non-invasive follicular thyroid neoplasms with papillary-like nuclear features: An analysis of their cytological, gene expression classifier and sonographic findings. *Cytopathology*. 2017. 28:488-494. PMID: 29165886
124. Sordillo DC, Sordillo LA, Sordillo PP, Shi L, Alfano RR: Short wavelength infrared optical windows for evaluation of benign and malignant tissues. *J Biomed Opt*. 2017. 22:45002. PMID: 28384701
125. Sredni ST, Suzuki M, Yang JP, Topczewski J, Bailey AW, Gokirmak T, Gross JN, de Andrade A, Kondo A, Piper DR, Tomita T: A functional screening of the kinome identifies the Polo-like

kinase 4 as a potential therapeutic target for malignant rhabdoid tumors, and possibly, other embryonal tumors of the brain. *Pediatr Blood Cancer*. 2017. PMID: 28398638

126. Stepanova V, Dergilev KV, Holman KR, Parfyonova YV, Tsokolaeva ZI, Teter M, Atochina-Vasserman EN, Volgina A, Zaitsev SV, Lewis SP, Zabozaev FG, Obraztsova K, Krymskaya VP, Cines DB: Urokinase-type plasminogen activator (uPA) is critical for progression of tuberous sclerosis complex 2 (TSC2)-deficient tumors. *J Biol Chem*. 2017. PMID: 28972182
127. Stocks MM, Crispens MA, Ding T, Mokshagundam S, Bruner-Tran KL, Osteen KG: Therapeutically targeting the inflammasome product in a chimeric model of endometriosis-related surgical adhesions. *Reprod Sci*. 2017. 1933719117698584. PMID: 28322132
128. Street CM, Zhu Z, Finel M, Court MH: Bisphenol-A glucuronidation in human liver and breast: identification of UDP-glucuronosyltransferases (UGTs) and influence of genetic polymorphisms. *Xenobiotica*. 2017. 47:1-10. PMID: 26999266
129. Su T, Washington MK, Ness RM, Rex DK, Smalley WE, Ulbright TM, Cai Q, Zheng W, Shrubsole MJ: Comparison of biomarker expression between proximal and distal colorectal adenomas: The Tennessee-Indiana Adenoma Recurrence Study. *Mol Carcinog*. 2017. 56:761-773. PMID: 27479195
130. Suprynowicz FA, Kamonjoh CM, Krawczyk E, Agarwal S, Wellstein A, Agboke FA, Choudhury S, Liu X, Schlegel R: Conditional cell reprogramming involves non-canonical beta-catenin activation and mTOR-mediated inactivation of Akt. *PLoS One*. 2017. 12:e0180897. PMID: 28700668. PMC ID:PMC5507294
131. Suzuki M, Kondo A, Ogino I, Arai H, Tomita T, Sredni ST: Overexpression of TEAD4 in atypical teratoid/rhabdoid tumor: New insight to the pathophysiology of an aggressive brain tumor. *Pediatr Blood Cancer*. 2017. 64:PMID: 27966820
132. Suzuki M, Patel K, Huang C, Costa FD, Kondo A, Soares FA, Tomita T, Sredni ST: Loss of expression of the Neural Cell Adhesion Molecule 1 (NCAM1) in atypical teratoid/rhabdoid tumors: a new diagnostic marker? *Appl Cancer Res* 201737:14
133. Tanner JA, Prasad B, Claw KG, Stapleton P, Chaudhry A, Schuetz EG, Thummel KE, Tyndale RF: Predictors of variation in CYP2A6 mRNA, protein, and enzyme activity in a human liver bank: Influence of genetic and nongenetic factors. *J Pharmacol Exp Ther*. 2017. 360:129-139. PMID: 27815364
134. Tasian SK, Teachey DT, Li Y, Shen F, Harvey RC, Chen IM, Ryan T, Vincent TL, Willman CL, Perl AE, Hunger SP, Loh ML, Carroll M, Grupp SA: Potent efficacy of combined PI3K/mTOR and JAK or ABL inhibition in murine xenograft models of Ph-like acute lymphoblastic leukemia. *Blood*. 2017. 129:177-187. PMID: 27777238. PMC ID:PMC5234216
135. Taylor CR, Branstetter D, Manna E, Dougall WC, Bussiere J, Johnson CW: Distribution of RANK and RANK ligand in normal human tissues as determined by an optimized immunohistochemical method. *Appl Immunohistochem Mol Morphol*. 2017. 25:299-307. PMID: 28248730
136. Trapecar M, Khan S, Roan NR, Chen TH, Telwatte S, Deswal M, Pao M, Somsouk M, Deeks SG, Hunt PW, Yukl S, Sanjabi S: An Optimized and Validated Method for Isolation and

Characterization of Lymphocytes from HIV+ Human Gut Biopsies. *AIDS Res Hum Retroviruses*. 2017. 33:S31-S39. PMID: 28882052. PMC ID:PMC5684666

137. Treister N, Nieder M, Baggott C, Olson E, Chen L, Dang H, Krailo M, August A, Sung L: Caphosol for prevention of oral mucositis in pediatric myeloablative haematopoietic cell transplantation. *Br J Cancer*. 2017. 116:21-27. PMID: 27875526. PMC ID:PMC5220147
138. Tyagi N, Deshmukh SK, Srivastava SK, Azim S, Ahmad A, Al-Ghadhban A, Singh AP, Carter JE, Wang B, Singh S: ETV4 facilitates cell-cycle progression in pancreatic cells through transcriptional regulation of Cyclin D1. *Mol Cancer Res*. 2017. PMID: 29117940.
139. Van Neste L, Groskopf J, Grizzle WE, Adams GW, DeGuenther MS, Kolettis PN, Bryant JE, Kearney GP, Kearney MC, Van Criekinge W, Gaston SM: Epigenetic risk score improves prostate cancer risk assessment. *Prostate*. 2017. 77:1259-1264. PMID: 28762545
140. Veruva SY, Lanman TH, Isaza JE, Freeman TA, Kurtz SM, Steinbeck MJ: Periprosthetic UHMWPE wear debris induces inflammation, vascularization, and innervation after total disc replacement in the lumbar spine. *Clin Orthop Relat Res*. 2017. 475:1369-1381. PMID: 27488379. PMC ID:PMC5384906
141. Wang H, Nicolay BN, Chick JM, Gao X, Geng Y, Ren H, Gao H, Yang G, Williams JA, Suski JM, Keibler MA, Sicinska E, Gerdemann U, Haining WN, Roberts TM, Polyak K, Gygi SP, Dyson NJ, Sicinski P: The metabolic function of cyclin D3-CDK6 kinase in cancer cell survival. *Nature*. 2017. 546:426-430. PMID: 28607489. PMC ID:PMC5516959
142. Wang X, Rida N, Shi J, Wu AH, Bleske BE, Zhu HJ: A comprehensive functional assessment of carboxylesterase 1 nonsynonymous polymorphisms. *Drug Metab Dispos*. 2017. 45:1149-1155. PMID: 28838926. PMC ID:PMC5637814
143. Wattacheril J, Rose KL, Hill S, Lanciault C, Murray CR, Washington K, Williams B, English W, Spann M, Clements R, Abumrad N, Flynn CR: Non-alcoholic fatty liver disease phosphoproteomics: A functional piece of the precision puzzle. *Hepatol Res*. 2017. 47:1469-1483. PMID: 28258704. PMC ID:PMC5583035
144. Wiet MG, Piscioneri A, Khan SN, Ballinger MN, Hoyland JA, Purmessur D: Mast Cell-Intervertebral disc cell interactions regulate inflammation, catabolism and angiogenesis in Discogenic Back Pain. *Sci Rep*. 2017. 7:12492. PMID: 28970490. PMC ID:PMC5624870
145. Wei J, Joshi S, Speransky S, Crowley C, Jayathilaka N, Lei X, Wu Y, Gai D, Jain S, Hoosien M, Gao Y, Chen L, Bishopric NH: Reversal of pathological cardiac hypertrophy via the MEF2-coregulator interface. *JCI Insight*. 2017. 2:PMID: 28878124. PMC ID:PMC5621875
146. Wei X, Choudhury Y, Lim WK, Anema J, Kahnoski RJ, Lane B, Ludlow J, Takahashi M, Kanayama HO, Belldegrün A, Kim HL, Rogers C, Nicol D, Teh BT, Tan MH: Recognizing the continuous nature of expression heterogeneity and clinical outcomes in clear cell renal cell carcinoma. *Sci Rep*. 2017. 7:7342. PMID: 28779136. PMC ID:PMC5544702
147. Weichand B, Popp R, Dziumbala S, Mora J, Strack E, Elwakeel E, Frank AC, Scholich K, Pierre S, Syed SN, Olesch C, Ringleb J, Oren B, Doring C, Savai R, Jung M, von Knethen A, Levkau B, Fleming I, Weigert A, Brune B: S1PR1 on tumor-associated macrophages promotes

lymphangiogenesis and metastasis via NLRP3/IL-1beta. *J Exp Med*. 2017. 214:2695-2713. PMID: 28739604. PMC ID:PMC5584110

148. Williams AD, Korolkova OY, Sakwe AM, Geiger TM, James SD, Muldoon RL, Herline AJ, Goodwin JS, Izban MG, Washington MK, Smoot DT, Ballard BR, Gazouli M, M'Koma AE: Human alpha defensin 5 is a candidate biomarker to delineate inflammatory bowel disease. *PLoS One*. 2017. 12:e0179710. PMID: 28817680. PMC ID:PMC5560519
149. Winder AD, Maniar KP, Wei JJ, Liu D, Scholtens DM, Lurain JR, Schink JC, Buttin BM, Filiaci VL, Lankes HA, Ramirez NC, Park K, Singh M, Lieberman RW, Mannel RS, Powell MA, Backes FJ, Mathews CA, Pearl ML, Secord AA, Peace DJ, Mutch DG, Creasman WT, Kim JJ: Synuclein-gamma in uterine serous carcinoma impacts survival: An NRG Oncology/Gynecologic Oncology Group study. *Cancer*. 2017. 123:1144-1155. PMID: 27926776. PMC ID:PMC5360512
150. Wu B, Gao X, Smith J, Bailin J: Optical biopsy using fluorescence spectroscopy for prostate cancer diagnosis. *Proc. SPIE*. 2017. 10038
151. Yan F, Liu L, Cao H, Moore DJ, Washington MK, Wang B, Peek RM, Acra SA, Polk DB: Neonatal colonization of mice with LGG promotes intestinal development and decreases susceptibility to colitis in adulthood. *Mucosal Immunol*. 2017. 10:117-127. PMID: 27095077. PMC ID:PMC5073052
152. Yan HP, Roberts LJ, Davies SS, Pohlmann P, Parl FF, Estes S, Maeng J, Parker B, Mernaugh R: Isolevuglandins as a gauge of lipid peroxidation in human tumors. *Free Radic Biol Med*. 2017. 106:62-68. PMID: 28189846
153. Yang ES, Willey CD, Mehta A, Crowley MR, Crossman DK, Chen D, Anderson JC, Naik G, Della Manna DL, Cooper TS, Sonpavde G: Kinase analysis of penile squamous cell carcinoma on multiple platforms to identify potential therapeutic targets. *Oncotarget*. 2017. 8:21710-21718. PMID: 28423512. PMC ID:PMC5400617
154. Yang SX, Polley EC, Nguyen D: Association of gammaH2AX at Diagnosis with Chemotherapy Outcome in Patients with Breast Cancer. *Theranostics*. 2017. 7:945-951. PMID: 28382166. PMC ID:PMC5381256
155. Yilmaz AS, Ozer HG, Gillespie JL, Allain DC, Bernhardt MN, Furlan KC, Castro LT, Peters SB, Nagarajan P, Kang SY, Iwenofu OH, Olencki T, Teknos TN, Toland AE: Differential mutation frequencies in metastatic cutaneous squamous cell carcinomas versus primary tumors. *Cancer*. 2017. 123:1184-1193. PMID: 27906449. PMC ID:PMC5360561
156. Zhang J, Feider CL, Nagi C, Yu W, Carter SA, Suliburk J, Cao HST, Eberlin LS: Detection of Metastatic Breast and Thyroid Cancer in Lymph Nodes by Desorption Electrospray Ionization Mass Spectrometry Imaging. *J Am Soc Mass Spectrom*. 2017. 28:1166-1174. PMID: 28247296. PMC ID:PMC5750372
157. Zhang J, Rector J, Lin JQ, Young JH, Sans M, Katta N, Giese N, Yu W, Nagi C, Suliburk J, Liu J, Bensussan A, DeHoog RJ, Garza KY, Ludolph B, Sorace AG, Syed A, Zahedivash A, Milner TE, Eberlin LS: Nondestructive tissue analysis for ex vivo and in vivo cancer diagnosis using a handheld mass spectrometry system. *Sci Transl Med*. 2017. 9:PMID: 28878011

158. Zhu B, Lindsey A, Li N, Lee K, Ramirez-Alcantara V, Canzoneri JC, Fajardo A, Madeira da Silva L, Thomas M, Piazza JT, Yet L, Eberhardt BT, Gurpinar E, Otali D, Grizzle W, Valiyaveetil J, Chen X, Keeton AB, Piazza GA: Phosphodiesterase 10A is overexpressed in lung tumor cells and inhibitors selectively suppress growth by blocking beta-catenin and MAPK signaling. *Oncotarget*. 2017. 8:69264-69280. PMID: 29050202. PMC ID:PMC5642477
159. Zu X, Yan R, Pan J, Zhong L, Cao Y, Ma J, Cai C, Huang D, Liu J, Chung FL, Liao DF, Cao D: Aldo-keto reductase 1B10 protects human colon cells from DNA damage induced by electrophilic carbonyl compounds. *Mol Carcinog*. 2017. 56:118-129. PMID: 26969882

2016

1. Abebayehu D, Spence AJ, Qayum AA, Taruselli MT, McLeod JJ, Caslin HL, Chumanevich AP, Kolawole EM, Paranjape A, Baker B, Ndaw VS, Barnstein BO, Oskeritzian CA, Sell SA, Ryan JJ: Lactic acid suppresses IL-33-mediated mast cell inflammatory responses via hypoxia-inducible factor-1alpha-dependent miR-155 suppression. *J Immunol*. 2016. 197:2909-2917. PMID: 27559047. PMC ID:PMC5026940
2. Ackerman WEt, Summerfield TL, Mesiano S, Schatz F, Lockwood CJ, Kniss DA: Agonist-dependent downregulation of progesterone receptors in human cervical stromal fibroblasts. *Reprod Sci*. 2016. 23:112-123. PMID: 26243545. PMCID: PMC5750373
3. Akhtar N, Singh AK, Ahmed S: MicroRNA-17 Suppresses TNF-alpha signaling by interfering with TRAF2 and cIAP2 association in rheumatoid arthritis synovial fibroblasts. *J Immunol*. 2016. 197:2219-2228. PMID: 27534557. PMC ID:PMC5010933
4. Andl CD, Le Bras GF, Loomans H, Kim AS, Zhou L, Zhang Y, Andl T: Association of TGFbeta signaling with the maintenance of a quiescent stem cell niche in human oral mucosa. *Histochem Cell Biol*. 2016. 146:539-555. PMID: 27480259
5. Arini A, Cavallin JE, Berninger JP, Marfil-Vega R, Mills M, Villeneuve DL, Basu N: In vivo and In vitro neurochemical-based assessments of wastewater effluents from the Maumee River area of concern. *Environ Pollut*. 2016. 211:9-19. PMID: 26736051
6. Arnold SA, Loomans HA, Ketova T, Andl CD, Clark PE, Zijlstra A: Urinary oncofetal ED-A fibronectin correlates with poor prognosis in patients with bladder cancer. *Clin Exp Metastasis*. 2016. 33:29-44. PMID: 26456754. PMC ID:PMC4742427
7. Austin DC, Strand DW, Love HL, Franco OE, Grabowska MM, Miller NL, Hameed O, Clark PE, Matusik RJ, Jin RJ, Hayward SW: NF-kappaB and androgen receptor variant 7 induce expression of SRD5A isoforms and confer 5ARI resistance. *Prostate*. 2016. 76:1004-1018. PMID: 27197599. PMC ID:PMC4912960
8. Austin DC, Strand DW, Love HL, Franco OE, Jang A, Grabowska MM, Miller NL, Hameed O, Clark PE, Fowke JH, Matusik RJ, Jin RJ, Hayward SW: NF-kappaB and androgen receptor variant expression correlate with human BPH progression. *Prostate*. 2016. 76:491-511. PMID: 26709083. PMC ID:PMC4763342

9. Bajaj J, Konuma T, Lytle NK, Kwon HY, Ablack JN, Cantor JM, Rizzieri D, Chuah C, Oehler VG, Broome EH, Ball ED, van der Horst EH, Ginsberg MH, Reya T: CD98-mediated adhesive signaling enables the establishment and propagation of acute myelogenous leukemia. *Cancer Cell*. 2016. 30:792-805. PMID: 27908736. PMC ID:PMC5137811
10. Bao Y, Li K, Guo Y, Wang Q, Li Z, Yang Y, Chen Z, Wang J, Zhao W, Zhang H, Chen J, Dong H, Shen K, Diamond AM, Yang W: Tumor suppressor PRSS8 targets Sphk1/S1P/Stat3/Akt signaling in colorectal cancer. *Oncotarget*. 2016. 7:26780-26792. PMID: 27050145. PMC ID:PMC5042014
11. Beaudry P, Campbell M, Dang NH, Wen J, Blote K, Weljie AM: A pilot study on the utility of serum metabolomics in neuroblastoma patients and xenograft models. *Pediatr Blood Cancer*. 2016. 63:214-220. PMID: 26481088
12. Bhansali M, Zhou J, Shemshedini L: TM4SF3 and AR: A nuclear complex that stabilizes both proteins. *Mol Endocrinol*. 2016. 30:13-25. PMID: 26649804. PMC ID:PMC4695629
13. Bianchi-Frias D, Basom R, Delrow JJ, Coleman IM, Dakhova O, Qu X, Fang M, Franco OE, Ericson NG, Bielas JH, Hayward SW, True L, Morrissey C, Brown L, Bhowmick NA, Rowley D, Ittmann M, Nelson PS: Cells comprising the prostate cancer microenvironment lack recurrent clonal somatic genomic aberrations. *Mol Cancer Res*. 2016. 14:374-384. PMID: 26753621. PMCID: PMC5582956
14. Boone J, Arend RC, Johnston BE, Cooper SJ, Gilchrest SA, Oelschlager DK, Grizzle WE, McGwin G, Gangrade A, Straughn JM Jr, Buchsbaum DJ. Targeting the Wnt/ β -catenin pathway in primary ovarian cancer with the porcupine inhibitor WNT974. *Laboratory Investigation* 2016;96(2):249-259. PMID:26658453
15. Borcherdig DC, Tong W, Hugo ER, Barnard DF, Fox S, LaSance K, Shaughnessy E, Ben-Jonathan N: Expression and therapeutic targeting of dopamine receptor-1 (D1R) in breast cancer. *Oncogene*. 2016. 35:3103-3113. PMID: 26477316. PMC ID:PMC5541367
16. Bosch LJ, Luo Y, Lao VV, Snaebjornsson P, Trooskens G, Vlassenbroeck I, Mongera S, Tang W, Welcsh P, Herman JG, Koopman M, Nagtegaal ID, Punt CJ, van Criekinge W, Meijer GA, Monnat RJ, Jr., Carvalho B, Grady WM: WRN promoter CpG island hypermethylation does not predict more favorable outcomes for patients with metastatic colorectal cancer treated with irinotecan-based therapy. *Clin Cancer Res*. 2016. 22:4612-4622. PMID: 27121793. PMC ID:PMC5026547
17. Buj R, Mallona I, Diez-Villanueva A, Barrera V, Mauricio D, Puig-Domingo M, Reverter JL, Matias-Guiu X, Azuara D, Ramirez JL, Alonso S, Rosell R, Capella G, Perucho M, Robledo M, Peinado MA, Jorda M: Quantification of unmethylated Alu (QUAlu): a tool to assess global hypomethylation in routine clinical samples. *Oncotarget*. 2016. 7:10536-10546. PMID: 26859682. PMC ID:PMC4891138
18. Cai T, Yao L, Turesky RJ: Bioactivation of heterocyclic aromatic amines by UDP glucuronosyltransferases. *Chem Res Toxicol*. 2016. 29:879-891. PMID: 27032077. PMC ID:PMC4868641
19. Calabrese FM, Clima R, Pignataro P, Lasorsa VA, Hogarty MD, Castellano A, Conte M, Tonini GP, Iolascon A, Gasparre G, Capasso M: A comprehensive characterization of rare

mitochondrial DNA variants in neuroblastoma. *Oncotarget*. 2016. 7:49246-49258. PMID: 27351283. PMC ID:PMC5226504

20. Chen H, Liu H, Zou H, Chen R, Dou Y, Sheng S, Dai S, Ai J, Melson J, Kittles RA, Pirooznia M, Liptay MJ, Borgia JA, Deng Y: Evaluation of plasma miR-21 and miR-152 as diagnostic biomarkers for common types of human cancers. *J Cancer*. 2016. 7:490-499. PMID: 26958084. PMC ID:PMC4780124
21. Chen X, Chen H, Dai M, Ai J, Li Y, Mahon B, Dai S, Deng Y: Plasma lipidomics profiling identified lipid biomarkers in distinguishing early-stage breast cancer from benign lesions. *Oncotarget*. 2016. 7:36622-36631. PMID: 27153558. PMC ID:PMC5095026
22. Chen X, Deane NG, Lewis KB, Li J, Zhu J, Washington MK, Beauchamp RD: Comparison of nanostring nCounter(R) Data on FFPE colon cancer samples and affymetrix microarray data on matched frozen tissues. *PLoS One*. 2016. 11:e0153784. PMID: 27176004. PMC ID:PMC4866771
23. Chen Z, Zhu S, Hong J, Soutto M, Peng D, Belkhiri A, Xu Z, El-Rifai W: Gastric tumour-derived ANGPT2 regulation by DARPP-32 promotes angiogenesis. *Gut*. 2016. 65:925-934. PMID: 25779598. PMC ID:PMC4573388
24. Cho YS, Do MH, Kwon SY, Moon C, Kim K, Lee K, Lee SJ, Hemmi S, Joo YE, Kim MS, Jung C: Efficacy of CD46-targeting chimeric Ad5/35 adenoviral gene therapy for colorectal cancers. *Oncotarget*. 2016. 7:38210-38223. PMID: 27203670. PMC ID:PMC5122383
25. Chun HJ, Lim EL, Heravi-Moussavi A, Saberi S, Mungall KL, Bilenky M, Carles A, Tse K, Shlafman I, Zhu K, Qian JQ, Palmquist DL, He A, Long W, Goya R, Ng M, LeBlanc VG, Pleasance E, Thiessen N, Wong T, Chuah E, Zhao YJ, Schein JE, Gerhard DS, Taylor MD, Mungall AJ, Moore RA, Ma Y, Jones SJ, Perlman EJ, Hirst M, Marra MA: genome-wide profiles of extra-cranial malignant rhabdoid tumors reveal heterogeneity and dysregulated developmental pathways. *Cancer Cell*. 2016. 29:394-406. PMID: 26977886. PMC ID:PMC5094835
26. Chung JY, Choi J, Sears JD, Ylaya K, Perry C, Choi CH, Hong SM, Cho H, Brown KM, Hewitt SM: A melanin-bleaching methodology for molecular and histopathological analysis of formalin-fixed paraffin-embedded tissue. *Lab Invest*. 2016. PMID: 27548802.
27. Clark AJ, Petty HR: Identification of lesion subtypes in biopsies of ductal carcinoma in situ of the breast using biomarker ratio imaging microscopy. *Sci Rep*. 2016. 6:27039. PMID: 27247112. PMC ID:PMC4887986
28. Clark AJ, Petty HR: Protocol for biomarker ratio imaging microscopy with specific application to ductal carcinoma in situ of the breast. *Front Cell Dev Biol*. 2016. 4:120. PMID: 27857940. PMC ID:PMC5093143
29. Coe GL, Redd PS, Paschall AV, Lu C, Gu L, Cai H, Albers T, Lebedyeva IO, Liu K: Ceramide mediates FasL-induced caspase 8 activation in colon carcinoma cells to enhance FasL-induced cytotoxicity by tumor-specific cytotoxic T lymphocytes. *Sci Rep*. 2016. 6:30816. PMID: 27487939. PMC ID:PMC4973238

30. Conrad T, Landry GM, Aw TY, Nichols R, McMartin KE: Diglycolic acid, the toxic metabolite of diethylene glycol, chelates calcium and produces renal mitochondrial dysfunction in vitro. *Clin Toxicol (Phila)*. 2016. 54:501-511. PMID: 27002734
31. Contractor T, Kobayashi S, da Silva E, Clausen R, Chan C, Vosburgh E, Tang LH, Levine AJ, Harris CR: Sexual dimorphism of liver metastasis by murine pancreatic neuroendocrine tumors is affected by expression of complement C5. *Oncotarget*. 2016. 7:30585-30596. PMID: 27105526. PMC ID:PMC5058703 [4]
32. Dalerba P, Sahoo D, Paik S, Guo X, Yothers G, Song N, Wilcox-Fogel N, Forgo E, Rajendran PS, Miranda SP, Hisamori S, Hutchison J, Kalisky T, Qian D, Wolmark N, Fisher GA, van de Rijn M, Clarke MF: CDX2 as a Prognostic Biomarker in Stage II and Stage III Colon Cancer. *Engl J Med*. 2016. 374:211-222. PMID: 26789870. PMC ID:PMC4784450
33. de Alava E, Marcilla D: Birth and evolution of the desmoplastic small round-cell tumor. *Semin Diagn Pathol*. 2016. 33:254-261. PMID: 27312937
34. Demark-Wahnefried W, Nix JW, Hunter GR, Rais-Bahrami S, Desmond RA, Chacko B, Morrow CD, Azrad M, Frugé AD, Tsuruta Y, Ptacek T, Tully SA, Segal R, Grizzle WE: Feasibility outcomes of a presurgical randomized controlled trial exploring the impact of caloric restriction and increased physical activity versus a wait-list control on tumor characteristics and circulating biomarkers in men electing prostatectomy for prostate cancer. *BMC Cancer* 2016;16:61. PMCID:PMC4743419
35. Eichler TE, Becknell B, Easterling RS, Ingraham SE, Cohen DM, Schwaderer AL, Hains DS, Li B, Cohen A, Metheny J, Tridandapani S, Spencer JD: Insulin and the phosphatidylinositol 3-kinase signaling pathway regulate Ribonuclease 7 expression in the human urinary tract. *Kidney Int*. 2016. 90:568-579. PMID: 27401534. PMC ID:PMC5576060
36. Feider CL, Elizondo N, Eberlin LS: Ambient ionization and FAIMS Mass Spectrometry for enhanced imaging of multiply charged molecular ions in biological tissues. *Anal Chem*. 2016. 88:11533-11541. PMID: 27782388. PMCID: PMC5317180
37. Forero A, Li Y, Chen D, Grizzle WE, Updike KL, Merz ND, Downs-Kelly E, Burwell TC, Vaklavas C, Buchsbaum DJ, Myers RM, LoBuglio AF, Varley KE. Expression of the MHC class II pathway in triple-negative breast cancer tumor cells is associated with a good prognosis and infiltrating lymphocytes. *Cancer Immunol Res*. 2016. 4:390-9. PMCID:PMC4878913
38. Freud AG, Keller KA, Scoville SD, Mundy-Bosse BL, Cheng S, Youssef Y, Hughes T, Zhang X, Mo X, Porcu P, Baiocchi RA, Yu J, Carson WE, 3rd, Caligiuri MA: NKp80 defines a critical step during human natural killer cell development. *Cell Rep*. 2016. 16:379-391. PMID: 27373165. PMC ID:PMC4970225
39. Gabriel KN, Jones AC, Nguyen JP, Antillon KS, Janos SN, Overton HN, Jenkins SM, Frisch EH, Trujillo KA, Bisoffi M: Association and regulation of protein factors of field effect in prostate tissues. *Int J Oncol*. 2016. 49:1541-1552. PMID: 27634112. PMC ID:PMC5021247
40. Gao R, Davis A, McDonald TO, Sei E, Shi X, Wang Y, Tsai PC, Casasent A, Waters J, Zhang H, Meric-Bernstam F, Michor F, Navin NE: Punctuated copy number evolution and clonal stasis in triple-negative breast cancer. *Nat Genet*. 2016. 48:1119-1130. PMID: 27526321. PMC ID:PMC5042845

41. Gedye C, Sirskyj D, Lobo NC, Meens J, Hyatt E, Robinette M, Fleshner N, Hamilton RJ, Kulkarni G, Zlotta A, Evans A, Finelli A, Jewett MA, Ailles LE: Cancer stem cells are underestimated by standard experimental methods in clear cell renal cell carcinoma. *Sci Rep*. 2016. 6:25220. PMID: 27121191. PMC ID:PMC4848484
42. Gomes BC, Rueff J, Rodrigues AS: MicroRNAs and cancer drug resistance. *Methods Mol Biol*. 2016. 1395:137-162. PMID: 26910073
43. Gooskens SL, Kenny C, Lazaro A, O'Meara E, van Tinteren H, Spreafico F, Vujanic G, Leuschner I, Coulomb-L'Hermine A, Perotti D, de Camargo B, Bergeron C, Acha Garcia T, Tanaka M, Pieters R, Pritchard-Jones K, Graf N, van den Heuvel-Eibrink MM, O'Sullivan MJ: The clinical phenotype of YWHAE-NUTM2B/E positive pediatric clear cell sarcoma of the kidney. *Genes Chromosomes Cancer*. 2016. 55:143-147. PMID: 26542179
44. Gordetsky J, Gibson B, Stevens T, Ellenburg J, Grizzle W, Rais-Bahrami S. Occult metastases in pelvic lymphadenectomy specimens from patients with urothelial carcinoma of the bladder. *Urology* 2016;94:161-166. PMID:27184604
45. Grabowska MM, Kelly SM, Reese AL, Cates JM, Case TC, Zhang J, DeGraff DJ, Strand DW, Miller NL, Clark PE, Hayward SW, Gronostajski RM, Anderson PD, Matusik RJ: Nfib regulates transcriptional networks that control the development of prostatic hyperplasia. *Endocrinology*. 2016. 157:1094-1109. PMID: 26677878. PMC ID:PMC4769366
46. Gruber HE, Hoelscher GL, Bullock L, Ingram JA, Norton HJ, Hanley EN, Jr.: Human annulus signaling cues for nerve outgrowth: In vitro studies. *J Orthop Res*. 2016. 34:1456-1465. PMID: 27155444
47. Gruber HE, Riley FE, Hoelscher GL, Ingram JA, Bullock L, Hanley EN, Jr.: Human annulus progenitor cells: Analyses of this viable endogenous cell population. *J Orthop Res*. 2016. 34:1351-1360. PMID: 27249627
48. Gupta SC, Singh R, Asters M, Liu J, Zhang X, Pabbidi MR, Watabe K, Mo YY: Regulation of breast tumorigenesis through acid sensors. *Oncogene*. 2016. 35:4102-4111. PMID: 26686084
49. Hall CP, Reynolds CP, Kang MH: Modulation of glucocorticoid resistance in pediatric T-cell acute lymphoblastic leukemia by increasing BIM expression with the PI3K/mTOR inhibitor BEZ235. *Clin Cancer Res*. 2016. 22:621-632. PMID: 26080839. PMC ID:PMC4681691
50. Han C, Yang L, Choi HH, Baddour J, Achreja A, Liu Y, Li Y, Li J, Wan G, Huang C, Ji G, Zhang X, Nagrath D, Lu X: Amplification of USP13 drives ovarian cancer metabolism. *Nat Commun*. 2016. 7:13525. PMID: 27892457. PMC ID:PMC5133706
51. Haney SL, Upchurch GM, Opavska J, Klinkebiel D, Hlady RA, Roy S, Dutta S, Datta K, Opavsky R: Dnmt3a is a haploinsufficient tumor suppressor in CD8+ peripheral T cell lymphoma. *PLoS Genet*. 2016. 12:e1006334. PMID: 27690235. PMC ID:PMC5045215
52. Hefti E, Quinones-Lombrana A, Redzematovic A, Hui J, Blanco JG: Analysis of mtDNA, miR-155 and BACH1 expression in hearts from donors with and without Down syndrome. *Mitochondrial DNA A DNA Mapp Seq Anal*. 2016. 27:896-903. PMID: 24938108. PMC ID:PMC4315749

53. Hines WC, Kuhn I, Thi K, Chu B, Stanford-Moore G, Sampayo R, Garbe JC, Stampfer M, Borowsky AD, Bissell MJ: 184AA3: a xenograft model of ER+ breast adenocarcinoma. *Breast Cancer Res Treat.* 2016. 155:37-52. PMID: 26661596. PMC ID:PMC4706787
54. Hoefler CC, Blair RH, Blanco JG: Development of a CART model to predict the synthesis of cardiotoxic daunorubicinol in heart tissue samples from donors with and without Down syndrome. *J Pharm Sci.* 2016. 105:2005-2008. PMID: 27112290. PMC ID:PMC4885781
55. Hoefler CC, Quinones-Lombrana A, Blair RH, Blanco JG: Role of DNA methylation on the expression of the anthracycline metabolizing enzyme AKR7A2 in human heart. *Cardiovasc Toxicol.* 2016. 16:182-192. PMID: 25962911. PMC ID:PMC4643426
56. Hsu EC, Kulp SK, Huang HL, Tu HJ, Chao MW, Tseng YC, Yang MC, Salunke SB, Sullivan NJ, Chen WC, Zhang J, Teng CM, Fu WM, Sun D, Wicha MS, Shapiro CL, Chen CS: Integrin-linked kinase as a novel molecular switch of the IL-6-NF-kappaB signaling loop in breast cancer. *Carcinogenesis.* 2016. 37:430-442. PMID: 26905583. PMC ID:PMC5006214
57. Johnson MD, Reeder JE, O'Connell M: APOBEC3B expression in human leptomeninges and meningiomas. *Oncol Lett.* 2016. 12:5344-5348. PMID: 28101245. PMC ID:PMC5228209
58. Johnson MD, Reeder JE, O'Connell M: p38MAPK activation and DUSP10 expression in meningiomas. *J Clin Neurosci.* 2016. 30:110-114. PMID: 27050915
59. Joshi S, Wei J, Bishopric NH: A cardiac myocyte-restricted Lin28/let-7 regulatory axis promotes hypoxia-mediated apoptosis by inducing the AKT signaling suppressor PIK3IP1. *Biochim Biophys Acta.* 2016. 1862:240-251. PMID: 26655604. PMC ID:PMC4732518
60. Kalvala A, Gao L, Aguila B, Dotts K, Rahman M, Nana-Sinkam SP, Zhou X, Wang QE, Amann J, Otterson GA, Villalona-Calero MA, Duan W: Rad51C-ATXN7 fusion gene expression in colorectal tumors. *Mol Cancer.* 2016. 15:47. PMID: 27296891. PMC ID:PMC4906819
61. Kannan A, Wells RB, Sivakumar S, Komatsu S, Singh KP, Samten B, Philley JV, Sauter ER, Ikebe M, Idell S, Gupta S, Dasgupta S: Mitochondrial reprogramming regulates breast cancer progression. *Clin Cancer Res.* 2016. 22:3348-3360. PMID: 26888829
62. Karakas C, Biernacka A, Bui T, Sahin AA, Yi M, Akli S, Schafer J, Alexander A, Adjapong O, Hunt KK, Keyomarsi K: Cytoplasmic cyclin E and phospho-cyclin-dependent kinase 2 are biomarkers of aggressive breast cancer. *Am J Pathol.* 2016. 186:1900-1912. PMID: 27182644. PMC ID:PMC4929404
63. Karlsson J, Valind A, Jansson C, O'Sullivan MJ, Holmquist Mengelbier L, Gisselsson D: Aberrant epigenetic regulation in clear cell sarcoma of the kidney featuring distinct DNA hypermethylation and EZH2 overexpression. *Oncotarget.* 2016. 7:11127-11136. PMID: 26848979. PMC ID:PMC4905462
64. Kataria Y, Deaton RJ, Enk E, Jin M, Petrauskaite M, Dong L, Goldenberg JR, Cotler SJ, Jensen DM, van Breemen RB, Gann PH: Retinoid and carotenoid status in serum and liver among patients at high-risk for liver cancer. *BMC Gastroenterol.* 2016. 16:30. PMID: 26927700. PMC ID:PMC4772305

65. Keller J, Nimnual AS, Varghese MS, VanHeyst KA, Hayman MJ, Chan EL: A Novel EGFR extracellular domain mutant, EGFRDelta768, possesses distinct biological and biochemical properties in neuroblastoma. *Mol Cancer Res.* 2016. 14:740-752. PMID: 27216155. PMC ID:PMC4987210
66. Kenny C, Bausenwein S, Lazaro A, Furtwangler R, Gooskens SL, van den Heuvel Eibrink M, Vokuhl C, Leuschner I, Graf N, Gessler M, O'Sullivan MJ: Mutually exclusive BCOR internal tandem duplications and YWHAE-NUTM2 fusions in clear cell sarcoma of kidney: not the full story. *J Pathol.* 2016. 238:617-620. PMID: 27000436
67. Kim H, Samuel S, Lopez-Casas P, Grizzle W, Hidalgo M, Kovar J, Oelschlager D, Zinn K, Warram J, Buchsbaum D: SPARC-independent delivery of nab-paclitaxel without depleting tumor stroma in patient-derived pancreatic cancer xenografts. *Mol Cancer Ther.* 2016. 15:680-688. PMID: 26832793. PMC ID:PMC4873363
68. Kirby MK, Ramaker RC, Gertz J, Davis NS, Johnston BE, Oliver PG, Sexton KC, Greeno EW, Christein JD, Heslin MJ, Posey JA, Grizzle WE, Vickers SM, Buchsbaum DJ, Cooper SJ, Myers R. RNA sequencing of pancreatic adenocarcinoma tumors yields novel expression patterns associated with long-term survival and reveals a role for ANGPTL4. *Molecular Oncology* 2016. 10:1169-82. PMCID:PMC5423196
69. Koerner JD, Markova DZ, Schroeder GD, Rihn JA, Hilibrand AS, Vaccaro AR, Anderson DG, Kepler CK: The effect of substance P on an intervertebral disc rat organ culture model. *Spine (Phila Pa 1976).* 2016. 41:1851-1859. PMID: 27163370
70. Kolawole EM, McLeod JJ, Ndaw V, Abebayehu D, Barnstein BO, Faber T, Spence AJ, Taruselli M, Paranjape A, Haque TT, Qayum AA, Kazmi QA, Wijesinghe DS, Sturgill JL, Chalfant CE, Straus DB, Oskeritzian CA, Ryan JJ: Fluvastatin suppresses mast cell and basophil IgE responses: genotype-dependent effects. *J Immunol.* 2016. 196:1461-1470. PMID: 26773154. PMC ID:PMC4744515
71. Kozyreva VK, Kiseleva AA, Ice RJ, Jones BC, Loskutov YV, Matakah F, Smolkin MB, Marinak K, Livengood RH, Salkeni MA, Wen S, Hazard HW, Layne GP, Walsh CM, Cantrell PS, Kilby GW, Mahavadi S, Shah N, Pugacheva EN: Combination of Eribulin and Aurora A Inhibitor MLN8237 prevents metastatic colonization and induces cytotoxic autophagy in breast cancer. *Mol Cancer Ther.* 2016. 15:1809-1822. PMID: 27235164. PMC ID:PMC4975626
72. Krishnaiah YS, Pavurala N, Yang Y, Manda P, Katragadda U, Shah R, Fang G, Khan MA: In vitro drug transfer due to drug retention in human epidermis pretreated with application of marketed estradiol transdermal systems. *AAPS PharmSciTech.* 2016. PMID: 28028793
73. Lee HJ, Kim HJ, Liebler DC: Efficient microscale basic reverse phase peptide fractionation for global and targeted proteomics. *J Proteome Res.* 2016. 15:2346-2354. PMID: 27255222
74. Lee KE, Spata M, Bayne LJ, Buza EL, Durham AC, Allman D, Vonderheide RH, Simon MC: Hif1a deletion reveals pro-neoplastic function of B Cells in pancreatic neoplasia. *Cancer Discov.* 2016. 6:256-269. PMID: 26715642. PMC ID:PMC4783189
75. Lee RH, Korsapati H, Bhalla V, Varki N, Mittal RK: Esophageal submucosal injection of capsaicin but not acid induces symptoms in normal subjects. *J Neurogastroenterol Motil.* 2016. 22:436-443. PMID: 26932896. PMC ID:PMC4930298

76. Li H, Borrego F, Nagata S, Tolnay M: Fc receptor-like 5 expression distinguishes two distinct subsets of human circulating tissue-like memory B cells. *J Immunol.* 2016. 196:4064-4074. PMID: 27076679
77. Li R, Zhang K, Penedo TL, Kragel CP, Grizzle WE, Hameed O, Siegal GP, Wei S. The RANK pathway in advanced breast cancer: Does Src play a role? *Applied Immunohistochem Mol Morphol* 2016;24(1):42-50. PMID: 26200837
78. Liyanarachchi S, Li W, Yan P, Bundschuh R, Brock P, Senter L, Ringel MD, de la Chapelle A, He H: Genome-wide expression screening discloses long noncoding RNAs involved in thyroid carcinogenesis. *J Clin Endocrinol Metab.* 2016. 101:4005-4013. PMID: 27459529. PMC ID:PMC5095253
79. Lobo NC, Gedye C, Apostoli AJ, Brown KR, Paterson J, Stickle N, Robinette M, Fleshner N, Hamilton RJ, Kulkarni G, Zlotta A, Evans A, Finelli A, Moffat J, Jewett MA, Ailles L: Efficient generation of patient-matched malignant and normal primary cell cultures from clear cell renal cell carcinoma patients: clinically relevant models for research and personalized medicine. *BMC Cancer.* 2016. 16:485. PMID: 27422173. PMC ID:PMC4947293
80. Lu C, Redd PS, Lee JR, Savage N, Liu K: The expression profiles and regulation of PD-L1 in tumor-induced myeloid-derived suppressor cells. *Oncoimmunology.* 2016. 5:e1247135. PMID: 28123883. PMC ID:PMC5214087
81. Lu H, Wang T, Li J, Fedele C, Liu Q, Zhang J, Jiang Z, Jain D, Iozzo RV, Violette SM, Weinreb PH, Davis RJ, Gioeli D, FitzGerald TJ, Altieri DC, Languino LR: α 6 β 1 integrin promotes castrate-resistant prostate cancer through JNK1-mediated activation of androgen receptor. *Cancer Res.* 2016. 76:5163-5174. PMID: 27450452. PMC ID:PMC5012867
82. Margolin G, Petrykowska HM, Jameel N, Bell DW, Young AC, Elnitski L: Robust detection of DNA hypermethylation of ZNF154 as a pan-cancer locus with in silico modeling for blood-based diagnostic development. *J Mol Diagn.* 2016. 18:283-298. PMID: 26857064. PMC ID:PMC4816708
83. McNally LR, Mezera M, Morgan DE, Frederick PJ, Yang ES, Eltoum IE, Grizzle WE: Current and emerging clinical applications of Multispectral Optoacoustic Tomography (MSOT) in oncology. *Clin Cancer Res.* 2016. 22:3432-3439. PMID: 27208064. PMC ID:PMC5046137
84. Mobasheri A. Tissue Microarray Technology and Its Potential Applications in Toxicology and Toxicological Immunohistochemistry. In: Aziz S., Mehta R. (eds) *Technical Aspects of Toxicological Immunohistochemistry.* 2016. Springer, New York, NY
85. Myers JS, von Lersner AK, Sang QX: Proteomic upregulation of fatty acid synthase and fatty acid binding protein 5 and identification of cancer- and race-specific pathway associations in human prostate cancer tissues. *J Cancer.* 2016. 7:1452-1464. PMID: 27471561. PMC ID:PMC4964129
86. Myers MB, Banda M, McKim KL, Wang Y, Powell MJ, Parsons BL: Breast cancer heterogeneity examined by high-sensitivity quantification of PIK3CA, KRAS, HRAS, and BRAF mutations in normal breast and ductal carcinomas. *Neoplasia.* 2016. 18:253-263. PMID: 27108388. PMC ID:PMC4840288

87. Nguyen A, Yoshida M, Goodarzi H, Tavazoie SF: Highly variable cancer subpopulations that exhibit enhanced transcriptome variability and metastatic fitness. *Nat Commun.* 2016. 7:11246. PMID: 27138336. PMC ID:PMC4857405
88. Norquist BM, Harrell MI, Brady MF, Walsh T, Lee MK, Gulsuner S, Bernards SS, Casadei S, Yi Q, Burger RA, Chan JK, Davidson SA, Mannel RS, DiSilvestro PA, Lankes HA, Ramirez NC, King MC, Swisher EM, Birrer MJ: Inherited mutations in women with ovarian carcinoma. *JAMA Oncol.* 2016. 2:482-490. PMID: 26720728. PMC ID:PMC4845939
89. Oblinger JL, Burns SS, Akhmametyeva EM, Huang J, Pan L, Ren Y, Shen R, Miles-Markley B, Moberly AC, Kinghorn AD, Welling DB, Chang LS: Components of the eIF4F complex are potential therapeutic targets for malignant peripheral nerve sheath tumors and vestibular schwannomas. *Neuro Oncol.* 2016. 18:1265-1277. PMID: 26951381. PMC ID:PMC4998994
90. Ogbureke KU, Koli K, Saxena G: Matrix metalloproteinase 20 co-expression with dentin sialophosphoprotein in human and monkey kidneys. *J Histochem Cytochem.* 2016. 64:623-636. PMID: 27666430
91. Ooms AH, Gadd S, Gerhard DS, Smith MA, Guidry Auvil JM, Meerzaman D, Chen QR, Hsu CH, Yan C, Nguyen C, Hu Y, Ma Y, Zong Z, Mungall AJ, Moore RA, Marra MA, Huff V, Dome JS, Chi YY, Tian J, Geller JI, Mullighan CG, Ma J, Wheeler DA, Hampton OA, Walz AL, van den Heuvel-Eibrink MM, de Krijger RR, Ross N, Gastier-Foster JM, Perlman EJ: Significance of TP53 Mutation in Wilms Tumors with Diffuse Anaplasia: A Report from the Children's Oncology Group. *Clin Cancer Res.* 2016. 22:5582-5591. PMID: 27702824. PMC ID:PMC5290091
92. Ordulu Z, Nucci MR, Dal Cin P, Hollowell ML, Otis CN, Hornick JL, Park PJ, Kim TM, Quade BJ, Morton CC: Intravenous leiomyomatosis: an unusual intermediate between benign and malignant uterine smooth muscle tumors. *Mod Pathol.* 2016. 29:500-510. PMID: 26892441
93. Otali D, Fredenburgh J, Oelschlager DK, Grizzle WE: A standard tissue as a control for histochemical and immunohistochemical staining. *Biotech Histochem.* 2016. 91:309-326. PMID: 27149658
94. Ottman R, Levy J, Grizzle WE, Chakrabarti R: The other face of miR-17-92a cluster, exhibiting tumor suppressor effects in prostate cancer. *Oncotarget.* 2016. 7:73739-73753. PMID: 27650539. PMC ID:PMC5340125
95. Pagan M, Kloos RT, Lin CF, Travers KJ, Matsuzaki H, Tom EY, Kim SY, Wong MG, Stewart AC, Huang J, Walsh PS, Monroe RJ, Kennedy GC: The diagnostic application of RNA sequencing in patients with thyroid cancer: an analysis of 851 variants and 133 fusions in 524 genes. *BMC Bioinformatics.* 2016. 17 Suppl 1:6. PMID: 26818556. PMC ID:PMC4895782
96. Pan D, Roy S, Gascard P, Zhao J, Chen-Tanyolac C, Tlsty TD: SOX2, OCT3/4 and NANOG expression and cellular plasticity in rare human somatic cells requires CD73. *Cell Signal.* 2016. 28:1923-1932. PMID: 27705752. PMC ID:PMC5107210
97. Pankratz DG, Hu Z, Kim SY, Monroe RJ, Wong MG, Traweek ST, Kloos RT, Walsh PS, Kennedy GC: Analytical performance of a gene expression classifier for medullary thyroid carcinoma. *Thyroid.* 2016. 26:1573-1580. PMID: 27605259

98. Paranjape A, Chernushevich O, Qayum AA, Spence AJ, Taruselli MT, Abebayehu D, Barnstein BO, McLeod JJ, Baker B, Bajaj GS, Chumanevich AP, Oskeritzian CA, Ryan JJ: Dexamethasone rapidly suppresses IL-33-stimulated mast cell function by blocking transcription factor activity. *J Leukoc Biol.* 2016. PMID: 27443878
99. Paschall AV, Yang D, Lu C, Redd PS, Choi JH, Heaton CM, Lee JR, Nayak-Kapoor A, Liu K: CD133+CD24^{lo} defines a 5-Fluorouracil-resistant colon cancer stem cell-like phenotype. *Oncotarget.* 2016. 7:78698-78712. PMID: 27659530. PMC ID:PMC5346671
100. Pattison AM, Blomain ES, Merlino DJ, Wang F, Crissey MA, Kraft CL, Rappaport JA, Snook AE, Lynch JP, Waldman SA: Intestinal Enteroids Model Guanylate Cyclase C-dependent secretion induced by heat-stable enterotoxins. *Infect Immun.* 2016. 84:3083-3091. PMID: 27481254
101. Prigge ES, Arbyn M, von Knebel Doeberitz M, Reuschenbach M: Diagnostic accuracy of p16INK4a immunohistochemistry in oropharyngeal squamous cell carcinomas: A systematic review and meta-analysis. *Int J Cancer.* 2016. PMID: 27859245
102. Qayum AA, Paranjape A, Abebayehu D, Kolawole EM, Haque TT, McLeod JJ, Spence AJ, Caslin HL, Taruselli MT, Chumanevich AP, Baker B, Oskeritzian CA, Ryan JJ: IL-10-Induced miR-155 Targets SOCS1 To enhance IgE-mediated mast cell function. *J Immunol.* 2016. 196:4457-4467. PMID: 27183599. PMC ID:PMC4875869
103. Rocconi RP, Lankes HA, Brady WE, Goodfellow PJ, Ramirez NC, Alvarez RD, Creasman W, Fernandez JR: The role of racial genetic admixture with endometrial cancer outcomes: An NRG Oncology/Gynecologic Oncology Group study. *Gynecol Oncol.* 2016. 140:264-269. PMID: 26603970. PMC ID:PMC4842318
104. Rotsinger JE, Celada LJ, Polosukhin VV, Atkinson JB, Drake WP: Molecular analysis of sarcoidosis granulomas reveals antimicrobial targets. *Am J Respir Cell Mol Biol.* 2016. 55:128-134. PMID: 26807608. PMC ID:PMC4942207
105. Salloum-Asfar S, Arroyo AB, Teruel-Montoya R, Garcia-Barbera N, Roldan V, Vicente V, Martinez C, Gonzalez-Conejero R: MiRNA-based regulation of hemostatic factors through hepatic nuclear factor-4 alpha. *PLoS One.* 2016. 11:e0154751. PMID: 27135744. PMC ID:PMC4852917
106. Samuelsson JK, Dumbovic G, C. P, Moreta C, Alibés A, Ruiz-Larroya T, Giménez-Bonafé P, Alonso S, Forcales S, Perucho M: Helicase lymphoid-specific enzyme contributes to the maintenance of methylation of SST1 pericentromeric repeats that are frequently demethylated in colon cancer and associate with genomic damage. *Epigenomes.* 2016. 1: doi:10.3390/epigenomes1010002
107. Sanford JC, Wang X, Shi J, Barrie ES, Wang D, Zhu HJ, Sadee W: Regulatory effects of genomic translocations at the human carboxylesterase-1 (CES1) gene locus. *Pharmacogenet Genomics.* 2016. 26:197-207. PMID: 26871237. PMC ID:PMC4821783
108. Schafer C, Mohan A, Burford W, Driscoll MK, Ludlow AT, Wright WE, Shay JW, Danuser G: Differential KrasV12 protein levels control a switch regulating lung cancer cell morphology and motility. *Convergent Science Physical Oncology,* 2016, 1: 035004

109. Schwaderer AL, Wang H, Kim S, Kline JM, Liang D, Brophy PD, McHugh KM, Tseng GC, Saxena V, Barr-Beare E, Pierce KR, Shaikh N, Manak JR, Cohen DM, Becknell B, Spencer JD, Baker PB, Yu CY, Hains DS: Polymorphisms in alpha-Defensin-Encoding DEFA1A3 associate with urinary tract infection risk in children with vesicoureteral reflux. *J Am Soc Nephrol.* 2016. 27:3175-3186. PMID: 26940096. PMC ID:PMC5042661
110. Schwarz F, Springer SA, Altheide TK, Varki NM, Gagneux P, Varki A: Human-specific derived alleles of CD33 and other genes protect against postreproductive cognitive decline. *Proc Natl Acad Sci U S A.* 2016. 113:74-79. PMID: 26621708. PMC ID:PMC4711857
111. Scoville SD, Mundy-Bosse BL, Zhang MH, Chen L, Zhang X, Keller KA, Hughes T, Cheng S, Bergin SM, Mao HC, McClory S, Yu J, Carson WE, 3rd, Caligiuri MA, Freud AG: A progenitor cell expressing transcription factor RORgamma generates all human innate lymphoid cell subsets. *Immunity.* 2016. 44:1140-1150. PMID: 27178467. PMC ID:PMC4893782
112. Seijo E, Lima D, Iriabho E, Almeida J, Monico J, Echeverri M, Gutierrez S, Flores I, Lee JH, Fisher K, Grizzle WE, Sica GL, Butler C, Hicks C, Meade CD, Sodeke SO, Moroz K, Coppola D, Munoz-Antonia T: Construction and validation of a multi-institutional tissue microarray of invasive ductal carcinoma from racially and ethnically diverse populations. *Cancer Control.* 2016. 23:383-389. PMID: 27842327. PMC ID:PMC5268085
113. Shi J, Wang X, Eyer RF, Liang Y, Liu L, Mueller BA, Zhu HJ: Association of Oseltamivir Activation with Gender and Carboxylesterase 1 Genetic Polymorphisms. *Basic Clin Pharmacol Toxicol.* 2016. PMID: 27228223
114. Shi J, Wang X, Nguyen J, Bleske BE, Liang Y, Liu L, Zhu HJ: Dabigatran etexilate activation is affected by the CES1 genetic polymorphism G143E (rs71647871) and gender. *Biochem Pharmacol.* 2016. PMID: 27614009
115. Shi J, Wang X, Nguyen J, Wu AH, Bleske BE, Zhu HJ: Sacubitril is selectively activated by carboxylesterase 1 (CES1) in the liver and the activation is affected by CES1 genetic variation. *Drug Metab Dispos.* 2016. 44:554-559. PMID: 26817948. PMC ID:PMC4810765
116. Shirasaka Y, Chaudhry AS, McDonald M, Prasad B, Wong T, Calamia JC, Fohner A, Thornton TA, Isoherranen N, Unadkat JD, Rettie AE, Schuetz EG, Thummel KE: Interindividual variability of CYP2C19-catalyzed drug metabolism due to differences in gene diplotypes and cytochrome P450 oxidoreductase content. *Pharmacogenomics J.* 2016. 16:375-387. PMID: 26323597. PMC ID:PMC4775436
117. Shirley D, McHale C, Gomez G: Resveratrol preferentially inhibits IgE-dependent PGD2 biosynthesis but enhances TNF production from human skin mast cells. *Biochim Biophys Acta.* 2016. 1860:678-685. PMID: 26777630. PMC ID:PMC4764443
118. Shu J, Li L, Sarver AE, Pope EA, Varshney J, Thayanithy V, Spector L, Largaespada DA, Steer CJ, Subramanian S: Imprinting defects at human 14q32 locus alters gene expression and is associated with the pathobiology of osteosarcoma. *Oncotarget.* 2016. 7:21298-21314. PMID: 26802029. PMC ID:PMC5008286
119. Simmons AJ, Scurrah CR, McKinley ET, Herring CA, Irish JM, Washington MK, Coffey RJ, Lau KS: Impaired coordination between signaling pathways is revealed in human colorectal cancer

using single-cell mass cytometry of archival tissue blocks. *Sci Signal*. 2016. 9:rs11. PMID: 27729552. PMC ID:PMC5111815

120. Simon PS, Bardhan K, Chen MR, Paschall AV, Lu C, Bollag RJ, Kong FC, Jin J, Kong FM, Waller JL, Pollock RE, Liu K: NF-kappaB functions as a molecular link between tumor cells and Th1/Tc1 T cells in the tumor microenvironment to exert radiation-mediated tumor suppression. *Oncotarget*. 2016. 7:23395-23415. PMID: 27014915. PMC ID:PMC5029635
121. Singh AK, Umar S, Riegsecker S, Chourasia M, Ahmed S: Regulation of transforming growth factor beta-activated kinase activation by epigallocatechin-3-gallate in rheumatoid arthritis synovial fibroblasts: suppression of k(63) -linked autoubiquitination of tumor necrosis factor receptor-associated factor 6. *Arthritis Rheumatol*. 2016. 68:347-358. PMID: 26473505. PMC ID:PMC5383419
122. Singh R, Parveen M, Basgen JM, Fazel S, Meshesha MF, Thames EC, Moore B, Martinez L, Howard CB, Vergnes L, Reue K, Pervin S: Increased expression of beige/brown adipose markers from host and breast cancer cells influence xenograft formation in mice. *Mol Cancer Res*. 2016. 14:78-92. PMID: 26464213. PMC ID:PMC4749269
123. Soh H, Venkatesan N, Veena MS, Ravichandran S, Zinabadi A, Basak SK, Parvatiyar K, Srivastava M, Liang LJ, Gjertson DW, Torres JZ, Moatamed NA, Srivatsan ES: Cystatin E/M suppresses tumor cell growth through cytoplasmic retention of NF-kappaB. *Mol Cell Biol*. 2016. 36:1776-1792. PMID: 27090639. PMC ID:PMC4907098
124. Sordillo LA, Sordillo PP, Alfano RR: Label-free pathological evaluation of grade 3 cancer using Stokes shift spectroscopy *Proc SPIE*. 2016. 9703: 97030W <https://doi.org/10.1117/12.2214327>
125. Sousa JF, Nam KT, Petersen CP, Lee HJ, Yang HK, Kim WH, Goldenring JR: miR-30-HNF4gamma and miR-194-NR2F2 regulatory networks contribute to the upregulation of metaplasia markers in the stomach. *Gut*. 2016. 65:914-924. PMID: 25800782. PMC ID:PMC4922252
126. Spraggins JM, Rizzo DG, Moore JL, Noto MJ, Skaar EP, Caprioli RM: Next-generation technologies for spatial proteomics: Integrating ultra-high speed MALDI-TOF and high mass resolution MALDI FTICR imaging mass spectrometry for protein analysis. *Proteomics*. 2016. 16:1678-1689. PMID: 27060368
127. Stephen HM, Houry RJ, Majmudar PR, Blaylock T, Hawkins K, Salama MS, Scott MD, Cosminsky B, Utreja NK, Britt J, Conway RE: Epigenetic suppression of neprilysin regulates breast cancer invasion. *Oncogenesis*. 2016. 5:e207. PMID: 26950599. PMC ID:PMC4815048
128. Sun HL, Cui R, Zhou J, Teng KY, Hsiao YH, Nakanishi K, Fassan M, Luo Z, Shi G, Tili E, Kutay H, Lovat F, Vicentini C, Huang HL, Wang SW, Kim T, Zanesi N, Jeon YJ, Lee TJ, Guh JH, Hung MC, Ghoshal K, Teng CM, Peng Y, Croce CM: ERK activation globally downregulates miRNAs through phosphorylating Exportin-5. *Cancer Cell*. 2016. 30:723-736. PMID: 27846390. PMC ID:PMC5127275
129. Sung L, Aplenc R, Alonzo TA, Gerbing RB, Wang YC, Meshinchi S, Gamis AS: Association between prolonged neutropenia and reduced relapse risk in pediatric AML: A report from the Children's Oncology Group. *Int J Cancer*. 2016. 139:1930-1935. PMID: 27312107. PMC ID:PMC4990479

130. Suzuki M, Kondo A, Ogino I, Arai H, Tomita T, Sredni ST: Overexpression of TEAD4 in atypical teratoid/rhabdoid tumor: New insight to the pathophysiology of an aggressive brain tumor. *Pediatr Blood Cancer*. 2016. PMID: 27966820
131. Suzuki T, Swift LL: Discovery of novel splice variants and regulatory mechanisms for microsomal triglyceride transfer protein in human tissues. *Sci Rep*. 2016. 6:27308. PMID: 27256115. PMC ID:PMC4891672
132. Troupin A, Shirley D, Londono-Renteria B, Watson AM, McHale C, Hall A, Hartstone-Rose A, Klimstra WB, Gomez G, Colpitts TM: A role for human skin mast cells in dengue virus infection and systemic spread. *J Immunol*. 2016. 197:4382-4391. PMID: 27799312.
133. Tsuruta Y, Rogers LQ, Krontiras H, Grizzle WE, Fruge AD, Oster RA, Umphrey HR, Jones LW, Azrad M, Demark-Wahnefried W: Exploring effects of presurgical weight loss among women with stage 0-II breast cancer: protocol for a randomised controlled feasibility trial. *BMJ Open*. 2016. 6:e012320. PMID: 27633639
134. Udager AM, McHugh JB, Betz BL, Montone KT, Livolsi VA, Seethala RR, Yakirevich E, Iwenofu OH, Perez-Ordenez B, DuRoss KE, Weigelin HC, Lim MS, Elenitoba-Johnson KS, Brown NA: Activating KRAS mutations are characteristic of oncocytic sinonasal papilloma and associated sinonasal squamous cell carcinoma. *J Pathol*. 2016. 239:394-398. PMID: 27234382
135. Vaklavas C, Grizzle W, Choi H, Meng Z, Zinn K, Shrestha K, Blume SW. IRES inhibition induces terminal differentiation and synchronized death in triple-negative breast cancer and glioblastoma cells. *Tumour Biol* 2016;37(10):13247-13264. PMCID: PMC5097113
136. Villalona-Calero MA, Duan W, Zhao W, Shilo K, Schaaf LJ, Thurmond J, Westman JA, Marshall J, Xiaobai L, Ji J, Rose J, Lustberg M, Bekaii-Saab T, Chen A, Timmers C: Veliparib alone or in combination with mitomycin c in patients with solid tumors with functional deficiency in homologous recombination repair. *J Natl Cancer Inst*. 2016. 108:PMID: 26848151. PMC ID:PMC4948564
137. Vo KT, Edwards JV, Epling CL, Sinclair E, Hawkins DS, Grier HE, Janeway KA, Barnette P, McIlvaine E, Krailo MD, Barkauskas DA, Matthay KK, Womer RB, Gorlick RG, Lessnick SL, Mackall CL, DuBois SG: Impact of two measures of micrometastatic disease on clinical outcomes in patients with newly diagnosed Ewing Sarcoma: A Report from the Children's Oncology Group. *Clin Cancer Res*. 2016. 22:3643-3650. PMID: 26861456. PMC ID:PMC4947459
138. Wadi S, Tipton AR, Trendel JA, Khuder SA, Vestal DJ: hGBP-1 expression predicts shorter progression-free survival in ovarian cancers, while contributing to paclitaxel resistance. *J Cancer Ther*. 2016. 7:994-1007. PMID: 28090373. PMC ID:PMC5226657
139. Wallace L, Mehrabi S, Bacanamwo M, Yao X, Aikhionbare FO: Expression of mitochondrial genes MT-ND1, MT-ND6, MT-CYB, MT-COI, MT-ATP6, and 12S/MT-RNR1 in colorectal adenopolyps. *Tumour Biol*. 2016. PMID: 27333991
140. Wang D, Sadee W: CYP3A4 intronic SNP rs35599367 (CYP3A4*22) alters RNA splicing. *Pharmacogenet Genomics*. 2016. 26:40-43. PMID: 26488616. PMC ID:PMC4674354

141. Wang X, Liang Y, Liu L, Shi J, Zhu HJ: Targeted absolute quantitative proteomics with SILAC internal standards and unlabeled full-length protein calibrators (TAQSI). *Rapid Commun Mass Spectrom*. 2016. 30:553-561. PMID: 26842578
142. Wang X, Sun CL, Quinones-Lombrana A, Singh P, Landier W, Hageman L, Mather M, Rotter JI, Taylor KD, Chen YD, Armenian SH, Winick N, Ginsberg JP, Neglia JP, Oeffinger KC, Castellino SM, Dreyer ZE, Hudson MM, Robison LL, Blanco JG, Bhatia S: CELF4 Variant and Anthracycline-related cardiomyopathy: A Children's Oncology Group Genome-Wide Association Study. *J Clin Oncol*. 2016. 34:863-870. PMID: 26811534. PMC ID:PMC5070560
143. Wang X, Wang G, Shi J, Aa J, Comas R, Liang Y, Zhu HJ: CES1 genetic variation affects the activation of angiotensin-converting enzyme inhibitors. *Pharmacogenomics J*. 2016. 16:220-230. PMID: 26076923
144. Wei S, LiVolsi VA, Brose MS, Montone KT, Morrisette JJ, Baloch ZW: STK11 mutation identified in thyroid carcinoma. *Endocr Pathol*. 2016. 27:65-69. PMID: 26662608
145. Woodfield SE, Guo RJ, Liu Y, Major AM, Hollingsworth EF, Indiviglio S, Whittle SB, Mo Q, Bean AJ, Ittmann M, Lopez-Terrada D, Zage PE: Neuroblastoma patient outcomes, tumor differentiation, and ERK activation are correlated with expression levels of the ubiquitin ligase UBE4B. *Genes Cancer*. 2016. 7:13-26. PMID: 27014418. PMC ID:PMC4773702
146. Woodfolk JA, Glesner J, Wright PW, Kepley CL, Li M, Himly M, Muehling LM, Gustchina A, Wlodawer A, Chapman MD, Pomes A: Antigenic determinants of the bilobal cockroach allergen Blag 2. *J Biol Chem*. 2016. 291:2288-2301. PMID: 26644466. PMC ID:PMC4732212
147. Wu J, Keng VW, Patmore DM, Kendall JJ, Patel AV, Jousma E, Jessen WJ, Choi K, Tschida BR, Silverstein KA, Fan D, Schwartz EB, Fuchs JR, Zou Y, Kim MO, Dombi E, Levy DE, Huang G, Cancelas JA, Stemmer-Rachamimov AO, Spinner RJ, Largaespada DA, Ratner N: Insertional mutagenesis identifies a STAT3/Arid1b/beta-catenin pathway driving neurofibroma initiation. *Cell Rep*. 2016. 14:1979-1990. PMID: 26904939. PMC ID:PMC4782770
148. Wu Y, Meitzler JL, Antony S, Juhasz A, Lu J, Jiang G, Liu H, Hollingshead M, Haines DC, Butcher D, Panter MS, Roy K, Doroshov JH: Dual oxidase 2 and pancreatic adenocarcinoma: IFN-gamma-mediated dual oxidase 2 overexpression results in H₂O₂-induced, ERK-associated up-regulation of HIF-1alpha and VEGF-A. *Oncotarget*. 2016. 7:68412-68433. PMID: 27637085. PMC ID:PMC5340089
149. Xia Q, Chesi A, Manduchi E, Johnston BT, Lu S, Leonard ME, Parlin UW, Rappaport EF, Huang P, Wells AD, Blobel GA, Johnson ME, Grant SF: The type 2 diabetes presumed causal variant within TCF7L2 resides in an element that controls the expression of ACSL5. *Diabetologia*. 2016. PMID: 27539148
150. Xie L, Yang R, Liu S, Lyle S, Cotsarelis G, Xiang L, Zhang L, Li B, Wan M, Xu X: TR3 is preferentially expressed by bulge epithelial stem cells in human hair follicles. *Lab Invest*. 2016. 96:81-88. PMID: 26707825. PMC ID:PMC4915568
151. Xu Y, Wang K, Yu Q: FRMD6 inhibits human glioblastoma growth and progression by negatively regulating activity of receptor tyrosine kinases. *Oncotarget*. 2016. 7:70080-70091. PMID: 27661120. PMC ID:PMC5342536

152. Xu L, Wilson RA, Laetsch TW, Oliver D, Spunt SL, Hawkins DS, Skapek SX: Potential pitfalls of mass spectrometry to uncover mutations in childhood soft tissue sarcoma: A report from the Children's Oncology Group. *Sci Rep*. 2016. 6:33429. PMID: 27642091. PMC ID:PMC5027578
153. Zanotti S, Canalis E: Notch signaling and the skeleton. *Endocr Rev*. 2016. 37:223-253. PMID: 27074349. PMC ID:PMC4890266
154. Zhang J, Yu W, Ryu SW, Lin J, Buentello G, Tibshirani R, Suliburk J, Eberlin LS: Cardiolipins are biomarkers of mitochondria-rich thyroid oncocyctic tumors. *Cancer Res*. 2016. 76:6588-6597. PMID: 27659048. PMC ID:PMC5290171
155. Zhu HJ, Langaee TY, Gong Y, Wang X, Pepine CJ, Cooper-DeHoff RM, Johnson JA, Markowitz JS: CES1P1 variant -816A>C is not associated with hepatic carboxylesterase 1 expression and activity or antihypertensive effect of trandolapril. *Eur J Clin Pharmacol*. 2016. 72:681-687. PMID: 26915813. PMC ID:PMC4865408
156. Zhu J, Deane NG, Lewis KB, Padmanabhan C, Washington MK, Ciombor KK, Timmers C, Goldberg RM, Beauchamp RD, Chen X: Evaluation of frozen tissue-derived prognostic gene expression signatures in FFPE colorectal cancer samples. *Sci Rep*. 2016. 6:33273. PMID: 27623752. PMC ID:PMC5021945
157. Zhu S, Chen Z, Katsha A, Hong J, Belkhiri A, El-Rifai W: Regulation of CD44E by DARPP-32-dependent activation of SRp20 splicing factor in gastric tumorigenesis. *Oncogene*. 2016. 35:1847-1856. PMID: 26119931. PMC ID:PMC4486340
158. Zhu S, Soutto M, Chen Z, Peng D, Romero-Gallo J, Krishna US, Belkhiri A, Washington MK, Peek R, El-Rifai W: Helicobacter pylori-induced cell death is counteracted by NF-kappaB-mediated transcription of DARPP-32. *Gut*. 2016. 66:761-762. PMID: 27590997. PMC ID:PMC5334457
159. Zubair H, Azim S, Srivastava SK, Ahmad A, Bhardwaj A, Khan MA, Patel GK, Arora S, Carter JE, Singh S, Singh AP: Glucose metabolism reprogrammed by overexpression of IKKepsilon promotes pancreatic tumor growth. *Cancer Res*. 2016. 76:7254-7264. PMID: 27923829. PMC ID:PMC5161695
160. Zumwalde NA, Haag JD, Sharma D, Mirrielees JA, Wilke LG, Gould MN, Gumperz JE: Analysis of immune cells from human mammary ductal epithelial organoids reveals Vdelta2+ T cells that efficiently target breast carcinoma cells in the presence of bisphosphonate. *Cancer Prev Res (Phila)*. 2016. 9:305-316. PMID: 26811335. PMC ID:PMC4818696

2015

1. Abba MC, Gong T, Lu Y, Lee J, Zhong Y, Lacunza E, Butti M, Takata Y, Gaddis S, Shen J, Estecio MR, Sahin AA, Aldaz CM: A molecular portrait of high-grade ductal carcinoma in situ. *Cancer Res*. 2015. 75:3980-3990. PMID: 26249178
2. Adams CM, Hiebert SW, Eischen CM: Myc Induces miRNA-mediated apoptosis in response to HDAC inhibition in hematologic malignancies. *Cancer Res*. 2015. 76:736-748. PMID: 26676759. PMC ID:PMC4738141

3. Ahmed H, Bandyopadhyaya G: Examination of the regulation of galectin-3 expression in cancer. *Methods Mol Biol.* 2015. 1207:355-369. PMID: 25253153
4. Alonso S, Dai Y, Yamashita K, Horiuchi S, Dai T, Matsunaga A, Sanchez-Munoz R, Bilbao-Sieyro C, Diaz-Chico JC, Chernov AV, Strongin AY, Perucho M: Methylation of MGMT and ADAMTS14 in normal colon MUCOSA: biomarkers of a field defect for cancerization preferentially targeting elder African-Americans. *Oncotarget.* 2015. 6:3420-3431. PMID: 25638164. PMC ID:PMC4413663
5. Alonso S, Gonzalez B, Ruiz-Larroya T, Duran Dominguez M, Kato T, Matsunaga A, Suzuki K, Strongin AY, Gimenez-Bonafe P, Perucho M: Epigenetic inactivation of the extracellular matrix metallopeptidase ADAMTS19 gene and the metastatic spread in colorectal cancer. *Clin Epigenetics.* 2015. 7:124. PMID: 26634009. PMC ID:PMC4667455
6. Anderson JC, Willey CD, Mehta A, Welaya K, Chen D, Duarte CW, Ghatalia P, Arafat W, Madan A, Sudarshan S, Naik G, Grizzle WE, Choueiri TK, Sonpavde G: High throughput kinomic profiling of human clear cell renal cell carcinoma identifies kinase activity dependent molecular subtypes. *PLoS One.* 2015. 10:e0139267. PMID: 26406598. PMC ID:PMC4583516
7. Artinian N, Cloninger C, Holmes B, Benavides-Serrato A, Bashir T, Gera J: Phosphorylation of the Hippo pathway component AMOTL2 by the mTORC2 kinase promotes YAP signaling, resulting in enhanced glioblastoma growth and invasiveness. *J Biol Chem.* 2015. 290:19387-19401. PMID: 25998128. PMC ID:PMC4528104
8. Artym VV, Swatkoski S, Matsumoto K, Campbell CB, Petrie RJ, Dimitriadis EK, Li X, Mueller SC, Bugge TH, Gucek M, Yamada KM: Dense fibrillar collagen is a potent inducer of invadopodia via a specific signaling network. *J Cell Biol.* 2015. 208:331-350. PMID: 25646088. PMC ID:PMC4315243
9. Athwal RK, Walkiewicz MP, Baek S, Fu S, Bui M, Camps J, Ried T, Sung MH, Dalal Y: CENP-A nucleosomes localize to transcription factor hotspots and subtelomeric sites in human cancer cells. *Epigenetics Chromatin.* 2015. 8:2. PMID: 25788983. PMC ID:PMC4363203
10. Bai S, Baloch ZW, Samulski TD, Montone KT, LiVolsi VA: Poorly differentiated oncocytic (hurthle cell) follicular carcinoma: an institutional experience. *Endocr Pathol.* 2015. 26:164-169. PMID: 25898815
11. Barrett MT, Anderson KS, Lenkiewicz E, Andreozzi M, Cunliffe HE, Klassen CL, Dueck AC, McCullough AE, Reddy SK, Ramanathan RK, Northfelt DW, Pockaj BA: Genomic amplification of 9p24.1 targeting JAK2, PD-L1, and PD-L2 is enriched in high-risk triple negative breast cancer. *Oncotarget.* 2015. 6:26483-26493. PMID: 26317899. PMC ID:PMC4694916
12. Becknell B, Eichler TE, Beceiro S, Li B, Easterling RS, Carpenter AR, James CL, McHugh KM, Hains DS, Partida-Sanchez S, Spencer JD: Ribonucleases 6 and 7 have antimicrobial function in the human and murine urinary tract. *Kidney Int.* 2015. 87:151-161. PMID: 25075772. PMC ID:PMC4281292
13. Blouw B, Patel M, Iizuka S, Abdullah C, You WK, Huang X, Li JL, Diaz B, Stallcup WB, Courtneidge SA: The invadopodia scaffold protein Tks5 is required for the growth of human breast cancer cells in vitro and in vivo. *PLoS One.* 2015. 10:e0121003. PMID: 25826475. PMC ID:PMC4380437

14. Bowman TC, El-Shenawee M, Cambell LN: Terahertz imaging of excised breast tumor tissue on paraffin sections *IEEE Transactions on Antennas and Propagation*. 2015. 63:2088 - 2097
15. Brestoff JR, Kim BS, Saenz SA, Stine RR, Monticelli LA, Sonnenberg GF, Thome JJ, Farber DL, Lutfy K, Seale P, Artis D: Group 2 innate lymphoid cells promote beiging of white adipose tissue and limit obesity. *Nature*. 2015. 519:242-246. PMID: 25533952. PMC ID:PMC4447235
16. Bu Y, Li X, He Y, Huang C, Shen Y, Cao Y, Huang D, Cai C, Wang Y, Wang Z, Liao DF, Cao D: A phosphomimetic mutant of RelA/p65 at Ser536 induces apoptosis and senescence: An implication for tumor-suppressive role of Ser536 phosphorylation. *Int J Cancer*. 2015. PMID: 26375985
17. Buehring GC, Shen HM, Jensen HM, Jin DL, Hudes M, Block G: Exposure to bovine leukemia virus is associated with breast cancer: A Case-Control Study. *PLoS One*. 2015. 10:e0134304. PMID: 26332838. PMC ID:PMC4557937
18. Bukhari M, Deng H, Jones N, Towne Z, Woodworth CD, Samways DS: Selective permeabilization of cervical cancer cells to an ionic DNA-binding cytotoxin by activation of P2Y receptors. *FEBS Lett*. 2015. 589:1498-1504. PMID: 25937122. PMC ID:PMC4497545
19. Byrne JD, Jajja MR, O'Neill AT, Bickford LR, Keeler AW, Hyder N, Wagner K, Deal A, Little RE, Moffitt RA, Stack C, Nelson M, Brooks CR, Lee W, Luft JC, Napier ME, Darr D, Anders CK, Stack R, Tepper JE, Wang AZ, Zamboni WC, Yeh JJ, DeSimone JM: Local iontophoretic administration of cytotoxic therapies to solid tumors. *Sci Transl Med*. 2015. 7:273ra214. PMID: 25653220. PMC ID:PMC4545246
20. Chattopadhyay N, Berger AJ, Koenig E, Bannerman B, Garnsey J, Bernard H, Hales P, Maldonado Lopez A, Yang Y, Donelan J, Jordan K, Tirrell S, Stringer B, Xia C, Hather G, Galvin K, Manfredi M, Rhodes N, Amidon B: KRAS genotype correlates with proteasome inhibitor ixazomib activity in preclinical in vivo models of colon and non-small cell lung cancer: potential role of tumor metabolism. *PLoS One*. 2015. 10:e0144825. PMID: 26709701. PMC ID:PMC4692403
21. Chaudhry AS, Prasad B, Shirasaka Y, Fohner A, Finkelstein D, Fan Y, Wang S, Wu G, Aklillu E, Sim SC, Thummel KE, Schuetz EG: The CYP2C19 Intron 2 Branch Point SNP is the ancestral polymorphism contributing to the poor metabolizer phenotype in livers with CYP2C19*35 and CYP2C19*2 alleles. *Drug Metab Dispos*. 2015. 43:1226-1235. PMID: 26021325. PMC ID:PMC4518065
22. Chavez L, Calvanese V, Verdin E: HIV latency is established directly and early in both resting and activated primary CD4 T Cells. *PLoS Pathog*. 2015. 11:e1004955. PMID: 26067822. PMC ID:PMC4466167
23. Che P, Yang Y, Han X, Hu M, Sellers JC, Londono-Joshi AI, Cai GQ, Buchsbaum DJ, Christein JD, Tang Q, Chen D, Li Q, Grizzle WE, Lu YY, Ding Q: S100A4 promotes pancreatic cancer progression through a dual signaling pathway mediated by Src and focal adhesion kinase. *Sci Rep*. 2015. 5:8453. PMID: 25677816. PMC ID:PMC4326725

24. Chen L, Shern JF, Wei JS, Yohe ME, Song YK, Hurd L, Liao H, Catchpoole D, Skapek SX, Barr FG, Hawkins DS, Khan J: Clonality and evolutionary history of rhabdomyosarcoma. *PLoS Genet.* 2015. 11:e1005075. PMID: 25768946. PMC ID:PMC4358975
25. Chen TT, Filvaroff E, Peng J, Marsters S, Jubb A, Koeppen H, Merchant M, Ashkenazi A: MET suppresses epithelial VEGFR2 via intracrine VEGF-induced endoplasmic reticulum-associated degradation. *EBioMedicine.* 2015. 2:406-420. PMID: 26137585. PMC ID:PMC4486192
26. Chernov AV, Reyes L, Xu Z, Gonzalez B, Golovko G, Peterson S, Perucho M, Fofanov Y, Strongin AY: Mycoplasma CG- and GATC-specific DNA methyltransferases selectively and efficiently methylate the host genome and alter the epigenetic landscape in human cells. *Epigenetics.* 2015. 10:303-318. PMID: 25695131. PMC ID:PMC4623497
27. Comiskey DF, Jr., Jacob AG, Singh RK, Tapia-Santos AS, Chandler DS: Splicing factor SRSF1 negatively regulates alternative splicing of MDM2 under damage. *Nucleic Acids Res.* 2015. 43:4202-4218. PMID: 25845590. PMC ID:PMC4417157
28. Culp DJ, Robinson B, Cash MN, Bhattacharyya I, Stewart C, Cuadra-Saenz G: Salivary mucin 19 glycoproteins: innate immune functions in Streptococcus mutans-induced caries in mice and evidence for expression in human saliva. *J Biol Chem.* 2015. 290:2993-3008. PMID: 25512380. PMC ID:PMC4317041
29. Dalli J, Ramon S, Norris PC, Colas RA, Serhan CN: Novel proresolving and tissue-regenerative resolvins and protectin sulfido-conjugated pathways. *FASEB J.* 2015. 29:2120-2136. PMID: 25713027. PMC ID:PMC4415017
30. Damelin M, Bankovich A, Park A, Aguilar J, Anderson W, Santaguida M, Aujay M, Fong S, Khandke K, Pulito V, Ernstoff E, Escarpe P, Bernstein J, Pysz M, Zhong W, Upeslakis E, Lucas J, Nichols T, Loving K, Foord O, Hampl J, Stull R, Barletta F, Falahatpisheh H, Sapra P, Gerber HP, Dylla SJ: Anti-EFNA4 calicheamicin conjugates effectively target triple-negative breast and ovarian tumor-initiating cells to result in sustained tumor regressions. *Clin Cancer Res.* 2015. 21:4165-4173. PMID: 26015513
31. De Melo J, Tang D: Elevation of SIPL1 (SHARPIN) increases breast cancer risk. *PLoS One.* 2015. 10:e0127546. PMID: 25992689. PMC ID:PMC4438068
32. Dokukin ME, Guz NV, Woodworth CD, Sokolov I: Emergence of fractal geometry on the surface of human cervical epithelial cells during progression towards cancer. *New J Phys.* 2015. 17:PMID:
33. Doyle AD, Carvajal N, Jin A, Matsumoto K, Yamada KM: Local 3D matrix microenvironment regulates cell migration through spatiotemporal dynamics of contractility-dependent adhesions. *Nat Commun.* 2015. 6:8720. PMID: 26548801. PMC ID:PMC4643399
34. Du Z, Abedalthagafi M, Aizer AA, McHenry AR, Sun HH, Bray MA, Viramontes O, Machaidze R, Brastianos PK, Reardon DA, Dunn IF, Freeman GJ, Ligon KL, Carpenter AE, Alexander BM, Agar NY, Rodig SJ, Bradshaw EM, Santagata S: Increased expression of the immune modulatory molecule PD-L1 (CD274) in anaplastic meningioma. *Oncotarget.* 2015. 6:4704-4716. PMID: 25609200. PMC ID:PMC4467109

35. Edavana VK, Penney RB, Yao-Borengasser A, Starlard-Davenport A, Dhakal IB, Kadlubar S: Effect of MRP2 and MRP3 polymorphisms on anastrozole glucuronidation and MRP2 and MRP3 gene expression in normal liver samples. *Int J Cancer Res Mol Mech.* 2015. 1:PMID: 26985457. PMC ID:PMC4790825
36. Eleveld TF, Oldridge DA, Bernard V, Koster J, Daage LC, Diskin SJ, Schild L, Bentahar NB, Bellini A, Chicard M, Lapouble E, Combaret V, Legoix-Ne P, Michon J, Pugh TJ, Hart LS, Rader J, Attiyeh EF, Wei JS, Zhang S, Naranjo A, Gastier-Foster JM, Hogarty MD, Asgharzadeh S, Smith MA, Guidry Auvil JM, Watkins TB, Zwijnenburg DA, Ebus ME, van Sluis P, Hakkert A, van Wezel E, van der Schoot CE, Westerhout EM, Schulte JH, Tytgat GA, Dolman ME, Janoueix-Lerosey I, Gerhard DS, Caron HN, Delattre O, Khan J, Versteeg R, Schleiermacher G, Molenaar JJ, Maris JM: Relapsed neuroblastomas show frequent RAS-MAPK pathway mutations. *Nat Genet.* 2015. 47:864-871. PMID: 26121087. PMC ID:PMC4775079
37. Elzi DJ, Song M, Houghton PJ, Chen Y, Shiio Y: The role of FLI-1-EWS, a fusion gene reciprocal to EWS-FLI-1, in Ewing sarcoma. *Genes Cancer.* 2015. 6:452-461. PMID: 26807198. PMC ID:PMC4701224
38. Fishbein L, Khare S, Wubbenhorst B, DeSloover D, D'Andrea K, Merrill S, Cho NW, Greenberg RA, Else T, Montone K, LiVolsi V, Fraker D, Daber R, Cohen DL, Nathanson KL: Whole-exome sequencing identifies somatic ATRX mutations in pheochromocytomas and paragangliomas. *Nat Commun.* 2015. 6:6140. PMID: 25608029. PMC ID:PMC4302757
39. Frazier AL, Hale JP, Rodriguez-Galindo C, Dang H, Olson T, Murray MJ, Amatruda JF, Thornton C, Arul GS, Billmire D, Shaikh F, Pashankar F, Stoneham S, Krailo M, Nicholson JC: Revised risk classification for pediatric extracranial germ cell tumors based on 25 years of clinical trial data from the United Kingdom and United States. *J Clin Oncol.* 2015. 33:195-201. PMID: 25452439. PMC ID:PMC4279239
40. Fu A, Jacobs DI, Hoffman AE, Zheng T, Zhu Y: PIWI-interacting RNA 021285 is involved in breast tumorigenesis possibly by remodeling the cancer epigenome. *Carcinogenesis.* 2015. 36:1094-1102. PMID: 26210741. PMC ID:PMC5006152
41. Gajadhar AS, Johnson H, Slebos RJ, Shaddox K, Wiles K, Washington MK, Herline AJ, Levine DA, Liebler DC, White FM: Phosphotyrosine signaling analysis in human tumors is confounded by systemic ischemia-driven artifacts and intra-specimen heterogeneity. *Cancer Res.* 2015. 75:1495-1503. PMID: 25670172. PMC ID:PMC4383696
42. Galloway NL, Doitsh G, Monroe KM, Yang Z, Munoz-Arias I, Levy DN, Greene WC: Cell-to-cell transmission of HIV-1 is required to trigger pyroptotic death of lymphoid-tissue-derived CD4 T cells. *Cell Rep.* 2015. 12:1555-1563. PMID: 26321639. PMC ID:PMC4565731
43. Gascard P, Bilenky M, Sigaroudinia M, Zhao J, Li L, Carles A, Delaney A, Tam A, Kamoh B, Cho S, Griffith M, Chu A, Robertson G, Cheung D, Li I, Heravi-Moussavi A, Moksa M, Mingay M, Hussainkhel A, Davis B, Nagarajan RP, Hong C, Echipare L, O'Geen H, Hangauer MJ, Cheng JB, Neel D, Hu D, McManus MT, Moore R, Mungall A, Ma Y, Plettner P, Ziv E, Wang T, Farnham PJ, Jones SJ, Marra MA, Tlsty TD, Costello JF, Hirst M: Epigenetic and transcriptional determinants of the human breast. *Nat Commun.* 2015. 6:6351. PMID: 25690954. PMC ID:PMC4346612

44. Gerber MM, Hampel H, Zhou XP, Schulz NP, Suhy A, Deveci M, Catalyurek UV, Ewart Toland A: Allele-specific imbalance mapping at human orthologs of mouse susceptibility to colon cancer (Scc) loci. *Int J Cancer*. 2015. 137:2323-2331. PMID: 25973956
45. Gessel M, Spraggins JM, Voziyan P, Hudson BG, Caprioli RM: Decellularization of intact tissue enables MALDI imaging mass spectrometry analysis of the extracellular matrix. *J Mass Spectrom*. 2015. 50:1288-1293. PMID: 26505774
46. Ghosh A, De RK: Identification of certain cancer-mediating genes using Gaussian fuzzy cluster validity index. *J Biosci*. 2015. 40:741-754. PMID: 26564976
47. Gooskens SL, Gadd S, Guidry Auvil JM, Gerhard DS, Khan J, Patidar R, Meerzaman D, Chen QR, Hsu CH, Yan C, Nguyen C, Hu Y, Mullighan CG, Ma J, Jennings LJ, de Krijger RR, van den Heuvel-Eibrink MM, Smith MA, Ross N, Gastier-Foster JM, Perlman EJ: TCF21 hypermethylation in genetically quiescent clear cell sarcoma of the kidney. *Oncotarget*. 2015. 6:15828-15841. PMID: 26158413. PMC ID:PMC4599240
48. Gruber HE, Hoelscher GL, Bethea S, Hanley EN, Jr.: Mitochondrial membrane potential and nuclear and gene expression changes during human disc cell apoptosis: In vitro and in vivo annulus findings. *Spine (Phila Pa 1976)*. 2015. 40:876-882. PMID: 25909354
49. Gruber HE, Hoelscher GL, Bethea S, Ingram J, Cox M, Hanley EN, Jr.: High-mobility group box-1 gene, a potent proinflammatory mediators, is upregulated in more degenerated human discs in vivo and its receptor upregulated by TNF-alpha exposure in vitro. *Exp Mol Pathol*. 2015. 98:427-430. PMID: 25746662
50. Gruber HE, Hoelscher GL, Ingram JA, Bethea S, Cox M, Hanley EN, Jr.: Proinflammatory cytokines modulate the chemokine CCL2 (MCP-1) in human annulus cells in vitro: CCL2 expression and production. *Exp Mol Pathol*. 2015. 98:102-105. PMID: 25527176
51. Gruber HE, Hoelscher GL, Ingram JA, Bethea S, Hanley EN, Jr.: Autophagy in the degenerating human intervertebral disc: In vivo molecular and morphological evidence, and induction of autophagy in cultured annulus cells exposed to proinflammatory cytokines-implications for disc degeneration. *Spine (Phila Pa 1976)*. 2015. 40:773-782. PMID: 26091153
52. Gurung B, Hua X, Runske M, Bennett B, LiVolsi V, Roses R, Fraker DA, Metz DC: PTCH 1 staining of pancreatic neuroendocrine tumor (PNET) samples from patients with and without multiple endocrine neoplasia (MEN-1) syndrome reveals a potential therapeutic target. *Cancer Biol Ther*. 2015. 16:219-224. PMID: 25482929. PMC ID:PMC4623013
53. Guz NV, Dokukin ME, Woodworth CD, Cardin A, Sokolov I: Towards early detection of cervical cancer: Fractal dimension of AFM images of human cervical epithelial cells at different stages of progression to cancer. *Nanomedicine*. 2015. 11:1667-1675. PMID: 25959926
54. Hamilton N, Marquez-Garban D, Mah V, Fernando G, Elshimali Y, Garban H, Elashoff D, Vadgama J, Goodglick L, Pietras R: Biologic roles of estrogen receptor-beta and insulin-like growth factor-2 in triple-negative breast cancer. *Biomed Res Int*. 2015. 2015:925703. PMID: 25874233. PMC ID:PMC4385615
55. Hayes GM, Cairns B, Levashova Z, Chinn L, Perez M, Theunissen JW, Liao-Chan S, Bermudez A, Flory MR, Schweighofer KJ, E HvdH: CD39 is a promising therapeutic antibody target for the

treatment of soft tissue sarcoma. *Am J Transl Res*. 2015. 7:1181-1188. PMID: 26279761. PMC ID:PMC4532750

56. Hayes GM, Chinn L, Cantor JM, Cairns B, Levashova Z, Tran H, Velilla T, Duey D, Lippincott J, Zachwieja J, Ginsberg MH, E HvdH: Antitumor activity of an anti-CD98 antibody. *Int J Cancer*. 2015. 137:710-720. PMID: 25556716
57. He H, Li W, Liyanarachchi S, Jendrzewski J, Srinivas M, Davuluri RV, Nagy R, de la Chapelle A: Genetic predisposition to papillary thyroid carcinoma: involvement of FOXE1, TSHR, and a novel lincRNA gene, PTCSC2. *J Clin Endocrinol Metab*. 2015. 100:E164-172. PMID: 25303483. PMC ID:PMC4283026
58. He H, Li W, Liyanarachchi S, Srinivas M, Wang Y, Akagi K, Wu D, Wang Q, Jin V, Symer DE, Shen R, Phay J, Nagy R, de la Chapelle A: Multiple functional variants in long-range enhancer elements contribute to the risk of SNP rs965513 in thyroid cancer. *Proc Natl Acad Sci U S A*. 2015. 112:6128-6133. PMID: 25918370. PMC ID:PMC4434723
59. He J, Yu JJ, Xu Q, Wang L, Zheng JZ, Liu LZ, Jiang BH: Downregulation of ATG14 by EGR1-MIR152 sensitizes ovarian cancer cells to cisplatin-induced apoptosis by inhibiting cyto-protective autophagy. *Autophagy*. 2015. 11:373-384. PMID: 25650716. PMC ID:PMC4502709
60. He X, Yuan C, Yang J: Regulation and functional significance of CDC42 alternative splicing in ovarian cancer. *Oncotarget*. 2015. 6:29651-29663. PMID: 26336992. PMC ID:PMC4745753
61. Hines WC, Yaswen P, Bissell MJ: Modelling breast cancer requires identification and correction of a critical cell lineage-dependent transduction bias. *Nat Commun*. 2015. 6:6927. PMID: 25896888. PMC ID:PMC4411288
62. Hingorani P, Missiaglia E, Shipley J, Anderson JR, Triche TJ, Delorenzi M, Gastier-Foster J, Wing M, Hawkins DS, Skapek SX: Clinical application of prognostic gene expression signature in fusion gene-negative rhabdomyosarcoma: A Report from the Children's Oncology Group. *Clin Cancer Res*. 2015. 21:4733-4739. PMID: 26473193. PMC ID:PMC4610152
63. House L, Ramirez J, Seminerio M, Mirkov S, Ratain MJ: In vitro glucuronidation of aprepitant: a moderate inhibitor of UGT2B7. *Xenobiotica*. 2015. 45:990-998. PMID: 26053558
64. Huang KT, Tan D, Chen KH, Walker AM: Blockade of estrogen-stimulated proliferation by a constitutively-active prolactin receptor having lower expression in invasive ductal carcinoma. *Cancer Lett*. 2015. 358:152-160. PMID: 25527452
65. Isayeva T, Xu J, Ragin C, Dai Q, Cooper T, Carroll W, Dayan D, Vered M, Wenig B, Rosenthal E, Grizzle W, Anderson J, Willey CD, Yang ES, Brandwein-Gensler M: The protective effect of p16(INK4a) in oral cavity carcinomas: p16(Ink4A) dampens tumor invasion-integrated analysis of expression and kinomics pathways. *Mod Pathol*. 2015. 28:631-653. PMID: 25523612
PMCID:PMC4607481
66. Jahn SC, Rowland-Faux L, Stacpoole PW, James MO: Chloride concentrations in human hepatic cytosol and mitochondria are a function of age. *Biochem Biophys Res Commun*. 2015. 459:463-468. PMID: 25748576. PMC ID:PMC4380591

67. Johnson MD, Reeder JE, O'Connell M: MKP-3 regulates PDGF-BB effects and MAPK activation in meningioma cells. *J Clin Neurosci*. 2015. 22:752-757. PMID: 25698542
68. Jones AC, Antillon KS, Jenkins SM, Janos SN, Overton HN, Shoshan DS, Fischer EG, Trujillo KA, Bisoffi M: Prostate field cancerization: deregulated expression of macrophage inhibitory cytokine 1 (MIC-1) and platelet derived growth factor A (PDGF-A) in tumor adjacent tissue. *PLoS One*. 2015. 10:e0119314. PMID: 25767870. PMC ID:PMC4358924
69. Joseph S, Nicolson TJ, Hammons G, Word B, Green-Knox B, Lyn-Cook B: Expression of drug transporters in human kidney: impact of sex, age, and ethnicity. *Biol Sex Differ*. 2015. 6:4. PMID: 25750709. PMC ID:PMC4352278
70. Joshi P, Jeon YJ, Lagana A, Middleton J, Secchiero P, Garofalo M, Croce CM: MicroRNA-148a reduces tumorigenesis and increases TRAIL-induced apoptosis in NSCLC. *Proc Natl Acad Sci U S A*. 2015. 112:8650-8655. PMID: 26124099. PMC ID:PMC4507199
71. Kalvala A, Gao L, Aguila B, Reese T, Otterson GA, Villalona-Calero MA, Duan W: Overexpression of Rad51C splice variants in colorectal tumors. *Oncotarget*. 2015. 6:8777-8787. PMID: 25669972. PMC ID:PMC4496183
72. Karlsson J, Lilljebjorn H, Holmquist Mengelbier L, Valind A, Rissler M, Ora I, Fioretos T, Gisselsson D: Activation of human telomerase reverse transcriptase through gene fusion in clear cell sarcoma of the kidney. *Cancer Lett*. 2015. 357:498-501. PMID: 25481751
73. Karol SE, Yang W, Van Driest SL, Chang TY, Kaste S, Bowton E, Basford M, Bastarache L, Roden DM, Denny JC, Larsen E, Winick N, Carroll WL, Cheng C, Pei D, Fernandez CA, Liu C, Smith C, Loh ML, Raetz EA, Hunger SP, Scheet P, Jeha S, Pui CH, Evans WE, Devidas M, Mattano LA, Jr., Relling MV: Genetics of glucocorticoid-associated osteonecrosis in children with acute lymphoblastic leukemia. *Blood*. 2015. 126:1770-1776. PMID: 26265699. PMC ID:PMC4600016
74. Kepler CK, Markova DZ, Koerner JD, Mendelis J, Chen CM, Vaccaro AR, Risbud MV, Albert TJ, Anderson DG: Substance P receptor antagonist suppresses inflammatory cytokine expression in human disc cells. *Spine (Phila Pa 1976)*. 2015. 40:1261-1269. PMID: 25929203
75. Kim SY, Theunissen JW, Balibalos J, Liao-Chan S, Babcock MC, Wong T, Cairns B, Gonzalez D, van der Horst EH, Perez M, Levashova Z, Chinn L, D'Alessio JA, Flory M, Bermudez A, Jackson DY, Ha E, Monteon J, Bruhns MF, Chen G, Migone TS: A novel antibody-drug conjugate targeting SAIL for the treatment of hematologic malignancies. *Blood Cancer J*. 2015. 5:e316. PMID: 26024286. PMC ID:PMC4476018
76. Kimbrough CW, Khanal A, Zeiderman M, Khanal BR, Burton NC, McMasters KM, Vickers S, Grizzle WE, McNally LR. Targeting acidity in pancreatic adenocarcinoma: multispectral optoacoustic tomography detects pH-low insertion peptide probes in vivo. *Clin Can Res*. 2015. 21:4576-85. PMCID:PMC4609270
77. Kondo J, Powell AE, Wang Y, Musser MA, Southard-Smith EM, Franklin JL, Coffey RJ: LRIG1 regulates ontogeny of smooth muscle-derived subsets of interstitial cells of cajal in mice. *Gastroenterology*. 2015. 149:407-419 e408. PMID: 25921371. PMC ID:PMC4527342

78. Korolkova OY, Myers JN, Pellom ST, Wang L, M'Koma AE: Characterization of serum cytokine profile in predominantly colonic inflammatory bowel disease to delineate ulcerative and crohn's colitides. *Clin Med Insights Gastroenterol*. 2015. 8:29-44. PMID: 26078592. PMC ID:PMC4459555
79. Kramlinger VM, Alvarado Rojas M, Kanamori T, Guengerich FP: Cytochrome P450 3A enzymes catalyze the O6-demethylation of thebaine, a key step in endogenous mammalian morphine biosynthesis. *J Biol Chem*. 2015. 290:20200-20210. PMID: 26157146. PMC ID:PMC4536429
80. Kumar PL, James PF: Identification and characterization of methylation-dependent/independent DNA regulatory elements in the human SLC9B1 gene. *Gene*. 2015. 561:235-248. PMID: 25701605. PMC ID:PMC4361323
81. LaFrance ME, Farrow MA, Chandrasekaran R, Sheng J, Rubin DH, Lacy DB: Identification of an epithelial cell receptor responsible for Clostridium difficile TcdB-induced cytotoxicity. *Proc Natl Acad Sci U S A*. 2015. 112:7073-7078. PMID: 26038560. PMC ID:PMC4460460
82. Lawson DA, Bhakta NR, Kessenbrock K, Prummel KD, Yu Y, Takai K, Zhou A, Eyob H, Balakrishnan S, Wang CY, Yaswen P, Goga A, Werb Z: Single-cell analysis reveals a stem-cell program in human metastatic breast cancer cells. *Nature*. 2015. 526:131-135. PMID: 26416748. PMC ID:PMC4648562
83. Lee AM, Shimizu C, Oharaseki T, Takahashi K, Daniels LB, Kahn A, Adamson R, Dembitsky W, Gordon JB, Burns JC: Role of TGF-beta signaling in remodeling of noncoronary artery aneurysms in kawasaki disease. *Pediatr Dev Pathol*. 2015. 18:310-317. PMID: 25856633
84. Leodolter A, Alonso S, Gonzalez B, Ebert MP, Vieth M, Rocken C, Wex T, Peitz U, Malfertheiner P, Perucho M: Somatic DNA Hypomethylation in H. pylori-associated high-risk gastritis and gastric cancer: enhanced somatic hypomethylation associates with advanced stage cancer. *Clin Transl Gastroenterol*. 2015. 6:e85. PMID: 25928808. PMC ID:PMC4459532
85. Lerman DM, Monument MJ, McIlvaine E, Liu XQ, Huang D, Monovich L, Beeler N, Gorlick RG, Marina NM, Womer RB, Bridge JA, Krailo MD, Randall RL, Lessnick SL: Tumoral TP53 and/or CDKN2A alterations are not reliable prognostic biomarkers in patients with localized Ewing sarcoma: a report from the Children's Oncology Group. *Pediatr Blood Cancer*. 2015. 62:759-765. PMID: 25464386. PMC ID:PMC4376595
86. Li H, Jiang X, Yu Y, Huang W, Xing H, Agar NY, Yang HW, Yang B, Carroll RS, Johnson MD: KAP regulates ROCK2 and Cdk2 in an RNA-activated glioblastoma invasion pathway. *Oncogene*. 2015. 34:1432-1441. PMID: 24704824
87. Li QB, Wang W, Liu CH, Zhang GJ: Discrimination of breast cancer from normal tissue with raman spectroscopy and chemometrics. *J Applied Spectroscopy*. 2015. 82:450-455. PMID
88. Lyons MM, Raj NN, Chittams JL, Kilpatrick L, Deutschman CS: TAT-HSP70 attenuates experimental lung injury. *Shock*. 2015. 43:582-588. PMID: 25664981. PMC ID:PMC4433584
89. Malhotra A, Wang Y, Waters J, Chen K, Meric-Bernstam F, Hall IM, Navin NE: Ploidy-Seq: inferring mutational chronology by sequencing polyploid tumor subpopulations. *Genome Med*. 2015. 7:6. PMID: 25729435. PMC ID:PMC4343275

90. Mallory MJ, Allon SJ, Qiu J, Gazzara MR, Tapescu I, Martinez NM, Fu XD, Lynch KW: Induced transcription and stability of CELF2 mRNA drives widespread alternative splicing during T-cell signaling. *Proc Natl Acad Sci U S A*. 2015. 112:E2139-2148. PMID: 25870297. PMC ID:PMC4418860
91. Mayerich D, Walsh MJ, Kadjacsy-Balla A, Ray PS, Hewitt SM, Bhargava R: Stain-less staining for computed histopathology. *Technology (Singap World Sci)*. 2015. 3:27-31. PMID: 26029735. PMC ID:PMC4445956
92. Meetze K, Vincent S, Tyler S, Mazsa EK, Delpero AR, Bottega S, McIntosh D, Nicoletti R, Winston WM, Weiler S, Feng B, Gyuris J, Weng Z: Neuregulin 1 expression is a predictive biomarker for response to AV-203, an ERBB3 inhibitory antibody, in human tumor models. *Clin Cancer Res*. 2015. 21:1106-1114. PMID: 25542901
93. Mehrabi S, Wallace L, Cohen S, Yao X, Aikhionbare FO: Differential measurements of oxidatively modified proteins in colorectal adenopolyps. *Int J Clin Med*. 2015. 6:288-299. PMID: 26069854. PMC ID:PMC4461072
94. Mendonsa AM, VanSaun MN, Ustione A, Piston DW, Fingleton BM, Gorden DL: Host and tumor derived MMP13 regulate extravasation and establishment of colorectal metastases in the liver. *Mol Cancer*. 2015. 14:49. PMID: 25880591. PMC ID:PMC4351934
95. Mirabello L, Koster R, Moriarity BS, Spector LG, Meltzer PS, Gary J, Machiela MJ, Pankratz N, Panagiotou OA, Largaespada D, Wang Z, Gastier-Foster JM, Gorlick R, Khanna C, de Toledo SR, Petrilli AS, Patino-Garcia A, Sierrasesumaga L, Lecanda F, Andrulis IL, Wunder JS, Gokgoz N, Serra M, Hattinger C, Picci P, Scotlandi K, Flanagan AM, Tirabosco R, Amary MF, Halai D, Ballinger ML, Thomas DM, Davis S, Barkauskas DA, Marina N, Helman L, Otto GM, Becklin KL, Wolf NK, Weg MT, Tucker M, Wacholder S, Fraumeni JF, Jr., Caporaso NE, Boland JF, Hicks BD, Vogt A, Burdett L, Yeager M, Hoover RN, Chanock SJ, Savage SA: A genome-wide scan identifies variants in NF1B associated with metastasis in patients with osteosarcoma. *Cancer Discov*. 2015. 5:920-931. PMID: 26084801. PMC ID:PMC4560660
96. Myers MB, McKim KL, Meng F, Parsons BL: Low-frequency KRAS mutations are prevalent in lung adenocarcinomas. *Per Med*. 2015. 12:83-98. PMID: 27795727. PMC ID:PMC5084916
97. Nagy R, Ringel MD: Genetic predisposition for nonmedullary thyroid cancer. *Horm Cancer*. 2015. 6:13-20. PMID: 25338077
98. Ni Y, Seballos S, Ganapathi S, Gurin D, Fletcher B, Ngeow J, Nagy R, Kloos RT, Ringel MD, LaFramboise T, Eng C: Germline and somatic SDHx alterations in apparently sporadic differentiated thyroid cancer. *Endocr Relat Cancer*. 2015. 22:121-130. PMID: 25694510. PMC ID:PMC4335266
99. O'Connell MR, Sarkar S, Luthra GK, Okugawa Y, Toiyama Y, Gajjar AH, Qiu S, Goel A, Singh P: Epigenetic changes and alternate promoter usage by human colon cancers for expressing DCLK1-isoforms: Clinical Implications. *Sci Rep*. 2015. 5:14983. PMID: 26447334. PMC ID:PMC4597220
100. Ogi H, Sakuraba Y, Kitagawa R, Xiao L, Shen C, Cynthia MA, Ohta S, Arnold MA, Ramirez N, Houghton PJ, Kitagawa K: The oncogenic role of the cochaperone Sgt1. *Oncogenesis*. 2015. 4:e149. PMID: 25985210. PMC ID:PMC4450263

101. Olanich ME, Sun W, Hewitt SM, Abdullaev Z, Pack SD, Barr FG: CDK4 Amplification Reduces Sensitivity to CDK4/6 Inhibition in Fusion-Positive Rhabdomyosarcoma. *Clin Cancer Res.* 2015. 21:4947-4959. PMID: 25810375. PMC ID:PMC4583342
102. Owens P, Pickup MW, Novitskiy SV, Giltneane JM, Gorska AE, Hopkins CR, Hong CC, Moses HL: Inhibition of BMP signaling suppresses metastasis in mammary cancer. *Oncogene.* 2015. 34:2437-2449. PMID: 24998846
103. Pence IJ, Patil CA, Lieber CA, Mahadevan-Jansen A: Discrimination of liver malignancies with 1064 nm dispersive Raman spectroscopy. *Biomed Opt Express.* 2015. 6:2724-2737. PMID: 26309739. PMC ID:PMC4541503
104. Perlman EJ, Gadd S, Arold ST, Radhakrishnan A, Gerhard DS, Jennings L, Huff V, Guidry Auvil JM, Davidsen TM, Dome JS, Meerzaman D, Hsu CH, Nguyen C, Anderson J, Ma Y, Mungall AJ, Moore RA, Marra MA, Mullighan CG, Ma J, Wheeler DA, Hampton OA, Gastier-Foster JM, Ross N, Smith MA: MLLT1 YEATS domain mutations in clinically distinctive Favourable Histology Wilms tumours. *Nat Commun.* 2015. 6:10013. PMID: 26635203. PMC ID:PMC4686660
105. Phillips T, Simmons P, Inzunza HD, Cogswell J, Novotny J, Jr., Taylor C, Zhang X: Development of an automated PD-L1 immunohistochemistry (IHC) assay for non-small cell lung cancer. *Appl Immunohistochem Mol Morphol.* 2015. 23:541-549. PMID: 26317305. PMC ID:PMC4561627
106. Poynter JN, Bestrashniy JR, Silverstein KA, Hooten AJ, Lees C, Ross JA, Tolar J: Cross platform analysis of methylation, miRNA and stem cell gene expression data in germ cell tumors highlights characteristic differences by tumor histology. *BMC Cancer.* 2015. 15:769. PMID: 26497383. PMC ID:PMC4619074
107. Proia T, Jiang F, Bell A, Nicoletti R, Kong L, Kreuter K, Poling L, Winston WM, Flaherty M, Weiler S, Perino S, O'Hagan R, Lin J, Gyuris J, Okamura H: 23814, an inhibitory antibody of ligand-mediated Notch1 activation, modulates angiogenesis and inhibits tumor growth without gastrointestinal toxicity. *Mol Cancer Ther.* 2015. 14:1858-1867. PMID: 25995436
108. Pulsipher MA, Carlson C, Langholz B, Wall DA, Schultz KR, Bunin N, Kirsch I, Gastier-Foster JM, Borowitz M, Desmarais C, Williamson D, Kalos M, Grupp SA: IgH-V(D)J NGS-MRD measurement pre- and early post-allotransplant defines very low- and very high-risk ALL patients. *Blood.* 2015. 125:3501-3508. PMID: 25862561. PMC ID:PMC4447864
109. Putcha BD, Jia X, Katkooi VR, Salih C, Shanmugam C, Jadhav T, Bovell LC, Behring MP, Callens T, Messiaen L, Bae S, Grizzle WE, Singh KP, Manne U: Clinical implications of Rabphilin-3A-like gene alterations in breast cancer. *PLoS One.* 2015. 10:e0129216. PMID: 26070152. PMC ID:PMC4466565
110. Qin H, Cho M, Haso W, Zhang L, Tasian SK, Oo HZ, Negri GL, Lin Y, Zou J, Mallon BS, Maude S, Teachey DT, Barrett DM, Orentas RJ, Daugaard M, Sorensen PH, Grupp SA, Fry TJ: Eradication of B-ALL using chimeric antigen receptor-expressing T cells targeting the TSLPR oncoprotein. *Blood.* 2015. 126:629-639. PMID: 26041741. PMC ID:PMC4520878

111. Qiu B, Ackerman D, Sanchez DJ, Li B, Ochocki JD, Grazioli A, Bobrovnikova-Marjon E, Diehl JA, Keith B, Simon MC: HIF2alpha-dependent lipid storage promotes endoplasmic reticulum homeostasis in clear-cell renal cell carcinoma. *Cancer Discov.* 2015. 5:652-667. PMID: 25829424. PMC ID:PMC4456212
112. Quinones-Lombrana A, Blanco JG: Chromosome 21-derived hsa-miR-155-5p regulates mitochondrial biogenesis by targeting Mitochondrial Transcription Factor A (TFAM). *Biochim Biophys Acta.* 2015. 1852:1420-1427. PMID: 25869329. PMC ID:PMC4433801
113. Ramirez J, Mirkov S, House LK, Ratain MJ: Glucuronidation of OTS167 in humans is catalyzed by UDP-Glucuronosyltransferases UGT1A1, UGT1A3, UGT1A8, and UGT1A10. *Drug Metab Dispos.* 2015. 43:928-935. PMID: 25870101. PMC ID:PMC4468433
114. Ribi S, Baumhoer D, Lee K, Edison, Teo AS, Madan B, Zhang K, Kohlmann WK, Yao F, Lee WH, Hoi Q, Cai S, Woo XY, Tan P, Jundt G, Smida J, Nathrath M, Sung WK, Schiffman JD, Virshup DM, Hillmer AM: TP53 intron 1 hotspot rearrangements are specific to sporadic osteosarcoma and can cause Li-Fraumeni syndrome. *Oncotarget.* 2015. 6:7727-7740. PMID: 25762628. PMC ID:PMC4480712
115. Salz T, Deng C, Pampo C, Siemann D, Qiu Y, Brown K, Huang S: Histone methyltransferase hSETD1A is a novel regulator of metastasis in breast cancer. *Mol Cancer Res.* 2015. 13:461-469. PMID: 25373480
116. Scoville SD, Keller KA, Cheng S, Zhang M, Zhang X, Caligiuri MA, Freud AG: Rapid column-free enrichment of mononuclear cells from solid tissues. *Sci Rep.* 2015. 5:12490. PMID: 26223896. PMC ID:PMC4519776
117. Sedeyn JC, Wu H, Hobbs RD, Levin EC, Nagele RG, Venkataraman V: Histamine induces Alzheimer's disease-like blood brain barrier breach and local cellular responses in mouse brain organotypic cultures. *Biomed Res Int.* 2015. 2015:937148. PMID: 26697497. PMC ID:PMC4677161
118. Shah AT, Skala MC: Ex vivo label-free microscopy of head and neck cancer patient tissues. *Proc. SPIE 9329, Multiphoton Microscopy in the Biomedical Sciences, 2015.* XV: 93292B
119. Shukla S, Kanwal R, Shankar E, Datt M, Chance MR, Fu P, MacLennan GT, Gupta S: Apigenin blocks IKKalpha activation and suppresses prostate cancer progression. *Oncotarget.* 2015. 6:31216-31232. PMID: 26435478
120. Simon PS, Sharman SK, Lu C, Yang D, Paschall AV, Tulachan SS, Liu K: The NF-kappaB p65 and p50 homodimer cooperate with IRF8 to activate iNOS transcription. *BMC Cancer.* 2015. 15:770. PMID: 26497740. PMC ID:PMC4619452
121. Singh B, Owens KM, Bajpai P, Desouki MM, Srinivasasainagendra V, Tiwari HK, Singh KK: Mitochondrial DNA Polymerase POLG1 disease mutations and germline variants promote tumorigenic properties. *PLoS One.* 2015. 10:e0139846. PMID: 26468652. PMC ID:PMC4607296
122. Singh N, Joshi S, Guo L, Baker MB, Li Y, Castellano RK, Raizada MK, Jarajapu YP: ACE2/Ang-(1-7)/Mas axis stimulates vascular repair-relevant functions of CD34+ cells. *Am J Physiol Heart Circ Physiol.* 2015. 309:H1697-1707. PMID: 26386115. PMC ID:PMC4666983

123. Slebos RJ, Wang X, Zhang B, Tabb DL, Liebler DC: Proteomic analysis of colon and rectal carcinoma using standard and customized databases. *Sci Data*. 2015. 2:150022. PMID: 26110064. PMC ID:PMC4477697
124. Sobolewski C, Sanduja S, Blanco FF, Hu L, Dixon DA: Histone deacetylase inhibitors activate tristetraprolin expression through induction of early growth response protein 1 (EGR1) in colorectal cancer cells. *Biomolecules*. 2015. 5:2035-2055. PMID: 26343742. PMC ID:PMC4598787
125. Sokolov I, Guz NV, Iyer S, Hewitt A, Sokolov NA, Erlichman JS, Woodworth CD: Recovery of aging-related size increase of skin epithelial cells: in vivo mouse and in vitro human study. *PLoS One*. 2015. 10:e0122774. PMID: 25807526. PMC ID:PMC4373822
126. Sorokin AV, Nair BC, Wei Y, Aziz KE, Evdokimova V, Hung MC, Chen J: Aberrant expression of proTPRN2 in cancer cells confers resistance to apoptosis. *Cancer Res*. 2015. 75:1846-1858. PMID: 25877877. PMC ID:PMC4417433
127. Spink BC, Bloom MS, Wu S, Sell S, Schneider E, Ding X, Spink DC: Analysis of the AHR gene proximal promoter GGGGC-repeat polymorphism in lung, breast, and colon cancer. *Toxicol Appl Pharmacol*. 2015. 282:30-41. PMID: 25447411. PMC ID:PMC4404625
128. Srivastava SK, Bhardwaj A, Arora S, Singh S, Azim S, Tyagi N, Carter JE, Wang B, Singh AP: MYB is a novel regulator of pancreatic tumour growth and metastasis. *Br J Cancer*. 2015. 113:1694-1703. PMID: 26657649. PMC ID:PMC4701995
129. Srivastava SK, Bhardwaj A, Arora S, Tyagi N, Singh S, Andrews J, McClellan S, Wang B, Singh AP: MicroRNA-345 induces apoptosis in pancreatic cancer cells through potentiation of caspase-dependent and -independent pathways. *Br J Cancer*. 2015. 113:660-668. PMID: 26247574. PMC ID:PMC4647684
130. Stanley J, Klepczyk L, Keene K, Wei S, Li Y, Forero A, Grizzle W, Wielgos M, Brazelton J, LoBuglio AF, Yang ES: PARP1 and phospho-p65 protein expression is increased in human HER2-positive breast cancers. *Breast Cancer Res Treat*. 2015. 150:569-579. PMID: 25833211. PMC ID:PMC4396624
131. Sturm AC, Kline CF, Glynn P, Johnson BL, Curran J, Kilic A, Higgins RS, Binkley PF, Janssen PM, Weiss R, Raman SV, Fowler SJ, Priori SG, Hund TJ, Carnes CA, Mohler PJ: Use of whole exome sequencing for the identification of Ito-based arrhythmia mechanism and therapy. *J Am Heart Assoc*. 2015. 4:PMID: 26015324. PMC ID:PMC4599408
132. Sun W, Chatterjee B, Wang Y, Stevenson HS, Edelman DC, Meltzer PS, Barr FG: Distinct methylation profiles characterize fusion-positive and fusion-negative rhabdomyosarcoma. *Mod Pathol*. 2015. 28:1214-1224. PMID: 26226845
133. Teng X, Ma L, Kyrkanides S, Raja V, Trochesset D, Brouxhon SM: Modulation of RTK by sEcad: a putative mechanism for oncogenicity in oropharyngeal SCCs. *Oral Dis*. 2015. 21:185-194. PMID: 24612046

134. Tetz LM, Aronoff DM, Loch-Caruso R: Mono-ethylhexyl phthalate stimulates prostaglandin secretion in human placental macrophages and THP-1 cells. *Reprod Biol Endocrinol*. 2015. 13:56. PMID: 26036283. PMC ID:PMC4462084
135. Umar S, Hedaya O, Singh AK, Ahmed S: Thymoquinone inhibits TNF-alpha-induced inflammation and cell adhesion in rheumatoid arthritis synovial fibroblasts by ASK1 regulation. *Toxicol Appl Pharmacol*. 2015. 287:299-305. PMID: 26134265. PMC ID:PMC4549173
136. Vaklavas C, Meng Z, Choi H, Grizzle WE, Zinn KR, Blume SW. Small molecule inhibitors of IRES-mediated translation. *Cancer Biol Ther*. 2015. 16: 1471-1485. PMCID:PMC4846101
137. Volchenbom SL, Andrade J, Huang L, Barkauskas DA, Krailo M, Womer RB, Ranft A, Potratz J, Dirksen U, Triche TJ, Lawlor ER: Gene expression profiling of ewing sarcoma tumors reveals the prognostic importance of tumor-stromal interactions: A Report from the Children's Oncology Group. *J Pathol Clin Res*. 2015. 1:83-94. PMID: 26052443. PMC ID:PMC4457396
138. Wei S, Baloch ZW, LiVolsi VA: Thyroid carcinoma in patients with Graves' disease: an institutional experience. *Endocr Pathol*. 2015. 26:48-53. PMID: 25332114
139. Wei S, Baloch ZW, LiVolsi VA: Parathyroid adenoma in patients with Graves' disease: a report of 21 cases. *Endocr Pathol*. 2015. 26:71-74. PMID: 25501495
140. Wei S, LiVolsi VA, Montone KT, Morrisette JJ, Baloch ZW: PTEN and TP53 mutations in oncocytic follicular carcinoma. *Endocr Pathol*. 2015. 26:365-369. PMID: 26530486
141. Wei SC, Fattet L, Tsai JH, Guo Y, Pai VH, Majeski HE, Chen AC, Sah RL, Taylor SS, Engler AJ, Yang J: Matrix stiffness drives epithelial-mesenchymal transition and tumour metastasis through a TWIST1-G3BP2 mechanotransduction pathway. *Nat Cell Biol*. 2015. 17:678-688. PMID: 25893917. PMC ID:PMC4452027
142. Winner MW, 3rd, Sharkey-Toppen T, Zhang X, Pennell ML, Simonetti OP, Zweier JL, Vaccaro PS, Raman SV: Iron and noncontrast magnetic resonance T2* as a marker of intraplaque iron in human atherosclerosis. *J Vasc Surg*. 2015. 61:1556-1564. PMID: 24674272. PMC ID:PMC4175307
143. Xing F, Sharma S, Liu Y, Mo YY, Wu K, Zhang YY, Pochampally R, Martinez LA, Lo HW, Watabe K: miR-509 suppresses brain metastasis of breast cancer cells by modulating RhoC and TNF-alpha. *Oncogene*. 2015. 34:4890-4900. PMID: 25659578. PMC ID:PMC4530094
144. Yang Y, Manda P, Pavurala N, Khan MA, Krishnaiah YS: Development and validation of in vitro-in vivo correlation (IVIVC) for estradiol transdermal drug delivery systems. *J Control Release*. 2015. 210:58-66. PMID: 25979329
145. Yen WC, Fischer MM, Axelrod F, Bond C, Cain J, Cancilla B, Henner WR, Meisner R, Sato A, Shah J, Tang T, Wallace B, Wang M, Zhang C, Kapoun AM, Lewicki J, Gurney A, Hoey T: Targeting Notch signaling with a Notch2/Notch3 antagonist (tarextumab) inhibits tumor growth and decreases tumor-initiating cell frequency. *Clin Cancer Res*. 2015. 21:2084-2095. PMID: 25934888

146. Yin W, Kimbrough CW, Gomez-Gutierrez JG, Burns CT, Chuong P, Grizzle WE, McNally LR. Tumor specific liposomes improve detection of pancreatic adenocarcinoma in vivo using optoacoustic tomography. *J Nanobiotechnol* 2015. 13:90. PMID:PMC4665906.
147. Young GM, Radhakrishnan VM, Centuori SM, Gomes CJ, Martinez JD: Comparative analysis of 14-3-3 isoform expression and epigenetic alterations in colorectal cancer. *BMC Cancer*. 2015. 15:826. PMID: 26518883. PMC ID:PMC4628284
148. Yu M, Carter KT, Makar KW, Vickers K, Ulrich CM, Schoen RE, Brenner D, Markowitz SD, Grady WM: MethyLight droplet digital PCR for detection and absolute quantification of infrequently methylated alleles. *Epigenetics*. 2015. 10:803-809. PMID: 26186366. PMC ID:PMC4623055
149. Zhao M, Gjerset RA: Topoisomerase-I PS506 as a dual function cancer biomarker. *PLoS One*. 2015. 10:e0134929. PMID: 26248194. PMC ID:PMC4527781
150. Zigelboim I, Ali S, Lankes HA, Backes F, Moore K, Mutch D, Robison K, Behbakht K, Waggoner S, Ghebre RG, Pearl M, Ramirez NC, Goodfellow P: Assessing the prognostic role of ATR mutation in endometrioid endometrial cancer: An NRG Oncology/Gynecologic Oncology Group study. *Gynecol Oncol*. 2015. 138:614-619. PMID: 26144601. PMC ID:PMC4556563

2014

1. Adler AS, McClelland ML, Yee S, Yaylaoglu M, Hussain S, Cosino E, Quinones G, Modrusan Z, Seshagiri S, Torres E, Chopra VS, Haley B, Zhang Z, Blackwood EM, Singh M, Junttila M, Stephan JP, Liu J, Pau G, Fearon ER, Jiang Z, Firestein R: An integrative analysis of colon cancer identifies an essential function for PRPF6 in tumor growth. *Genes Dev*. 2014. 28:1068-1084. PMID: 24788092. PMC ID:PMC4035536
2. Ammirante M, Shalapour S, Kang Y, Jamieson CA, Karin M: Tissue injury and hypoxia promote malignant progression of prostate cancer by inducing CXCL13 expression in tumor myofibroblasts. *Proc Natl Acad Sci U S A*. 2014. 111:14776-14781. PMID: 25267627. PMC ID:PMC4205637
3. Aref AM, Hoa NT, Ge L, Agrawal A, Dacosta-Iyer M, Lambrecht N, Ouyang Y, Cornforth AN, Jadus MR: HCA519/TPX2: a potential T-cell tumor-associated antigen for human hepatocellular carcinoma. *Onco Targets Ther*. 2014. 7:1061-1070. PMID: 24966688. PMC ID:PMC4063820
4. Armani M, Tangrea M, Yang B, Rosenberg A, Ylaya K, Morris J, Rodriguez-Canales J, Hanson J, Shapiro B, Emmert-Buck MR, Smela E, Hewitt SM: Multiplex quantitative measurement of mRNAs from fixed tissue microarray sections. *Appl Immunohistochem Mol Morphol*. 2014. 22:323-330. PMID: 24809843. PMC ID:PMC4022353
5. Aslam MI, Abraham J, Mansoor A, Druker BJ, Tyner JW, Keller C: PDGFRbeta reverses EphB4 signaling in alveolar rhabdomyosarcoma. *Proc Natl Acad Sci U S A*. 2014. 111:6383-6388. PMID: 24733895. PMC ID:PMC4035936
6. Atack JM, Ibranovic I, Ong CL, Djoko KY, Chen NH, Vanden Hoven R, Jennings MP, Edwards JL, McEwan AG: A role for lactate dehydrogenases in the survival of *Neisseria gonorrhoeae* in

human polymorphonuclear leukocytes and cervical epithelial cells. *J Infect Dis*. 2014. 210:1311-1318. PMID: 24737798. PMC ID:PMC4215069

7. Auer H, Mobley JA, Ayers LW, Bowen J, Chuaqui RF, Johnson LA, Livolsi VA, Lubensky IA, McGarvey D, Monovich LC, Moskaluk CA, Rumpel CA, Sexton KC, Washington MK, Wiles KR, Grizzle WE, Ramirez NC: The effects of frozen tissue storage conditions on the integrity of RNA and protein. *Biotech Histochem*. 2014. 89:518-528. PMID: 24799092. PMC ID:PMC4213858
8. Barr JT, Choughule KV, Nepal S, Wong T, Chaudhry AS, Joswig-Jones CA, Zientek M, Strom SC, Schuetz EG, Thummel KE, Jones JP: Why do most human liver cytosol preparations lack xanthine oxidase activity? *Drug Metab Dispos*. 2014. 42:695-699. PMID: 24430612. PMC ID:PMC3965898
9. Barrie ES, Weinshenker D, Verma A, Pendergrass SA, Lange LA, Ritchie MD, Wilson JG, Kuivaniemi H, Tromp G, Carey DJ, Gerhard GS, Brilliant MH, Hebbbring SJ, Cubells JF, Pinsonneault JK, Norman GJ, Sadee W: Regulatory polymorphisms in human DBH affect peripheral gene expression and sympathetic activity. *Circ Res*. 2014. 115:1017-1025. PMID: 25326128. PMC ID:PMC4258174
10. Benavides-Serrato A, Anderson L, Holmes B, Cloninger C, Artinian N, Bashir T, Gera J: mTORC2 modulates feedback regulation of p38 MAPK activity via DUSP10/MKP5 to confer differential responses to PP242 in glioblastoma. *Genes Cancer*. 2014. 5:393-406. PMID: 25568665. PMC ID:PMC4279437
11. Bhansali M, Shemshedini L: COP9 subunits 4 and 5 target soluble guanylyl cyclase alpha1 and p53 in prostate cancer cells. *Mol Endocrinol*. 2014. 28:834-845. PMID: 24725084. PMC ID:PMC4042074
12. Borges CR, Rehder DS, Jensen S, Schaab MR, Sherma ND, Yassine H, Nikolova B, Breburda C: Elevated plasma albumin and apolipoprotein A-I oxidation under suboptimal specimen storage conditions. *Mol Cell Proteomics*. 2014. 13:1890-1899. PMID: 24736286. PMC ID:PMC4083123
13. Bousfield GR, Butnev VY, Rueda-Santos MA, Brown A, Hall AS, Harvey DJ: Macro- and micro-heterogeneity in pituitary and urinary follicle-stimulating hormone glycosylation. *J Glycomics Lipidomics*. 2014. 4:PMID: 25722940. PMC ID:PMC4338580
14. Brohl AS, Solomon DA, Chang W, Wang J, Song Y, Sindiri S, Patidar R, Hurd L, Chen L, Shern JF, Liao H, Wen X, Gerard J, Kim JS, Lopez Guerrero JA, Machado I, Wai DH, Picci P, Triche T, Horvai AE, Miettinen M, Wei JS, Catchpool D, Llombart-Bosch A, Waldman T, Khan J: The genomic landscape of the Ewing Sarcoma family of tumors reveals recurrent STAG2 mutation. *PLoS Genet*. 2014. 10:e1004475. PMID: 25010205. PMC ID:PMC4091782
15. Brouxhon SM, Kyrkanides S, Teng X, Athar M, Ghazizadeh S, Simon M, O'Banion MK, Ma L: Soluble E-cadherin: a critical oncogene modulating receptor tyrosine kinases, MAPK and PI3K/Akt/mTOR signaling. *Oncogene*. 2014. 33:225-235. PMID: 23318419. PMC ID:PMC3795921
16. Brouxhon SM, Kyrkanides S, Teng X, O'Banion MK, Clarke R, Byers S, Ma L: Soluble-E-cadherin activates HER and IAP family members in HER2+ and TNBC human breast cancers. *Mol Carcinog*. 2014. 53:893-906. PMID: 23776059. PMC ID:PMC4477712

17. Brunckhorst MK, Xu Y, Lu R, Yu Q: Angiopoietins promote ovarian cancer progression by establishing a procancer microenvironment. *Am J Pathol.* 2014. 184:2285-2296. PMID: 25043619. PMC ID:PMC4116697
18. Buehring GC, Shen HM, Jensen HM, Choi KY, Sun D, Nuovo G: Bovine leukemia virus DNA in human breast tissue. *Emerg Infect Dis.* 2014. 20:772-782. PMID: 24750974. PMC ID:PMC4012802
19. Cai X, Dai Z, Reeves RS, Caballero-Benitez A, Duran KL, Delrow JJ, Porter PL, Spies T, Groh V: Autonomous stimulation of cancer cell plasticity by the human NKG2D lymphocyte receptor coexpressed with its ligands on cancer cells. *PLoS One.* 2014. 9:e108942. PMID: 25291178. PMC ID:PMC4188595
20. Campbell CB, Cukierman E, Artym VV: 3-D extracellular matrix from sectioned human tissues. *Curr Protoc Cell Biol.* 2014. 62:Unit 19 16 11-20. PMID: 24610123. PMC ID:PMC4004966
21. Chen SJ, Hoffman NE, Shanmughapriya S, Bao L, Keefer K, Conrad K, Merali S, Takahashi Y, Abraham T, Hirschler-Laszkiewicz I, Wang J, Zhang XQ, Song J, Barrero C, Shi Y, Kawasawa YI, Bayerl M, Sun T, Barbour M, Wang HG, Madesh M, Cheung JY, Miller BA: A splice variant of the human ion channel TRPM2 modulates neuroblastoma tumor growth through hypoxia-inducible factor (HIF)-1/2alpha. *J Biol Chem.* 2014. 289:36284-36302. PMID: 25391657. PMC ID:PMC4276889
22. Chinaranagari S, Sharma P, Chaudhary J: EZH2 dependent H3K27me3 is involved in epigenetic silencing of ID4 in prostate cancer. *Oncotarget.* 2014. 5:7172-7182. PMID: 25115397. PMC ID:PMC4196193
23. Colas RA, Shinohara M, Dalli J, Chiang N, Serhan CN: Identification and signature profiles for pro-resolving and inflammatory lipid mediators in human tissue. *Am J Physiol Cell Physiol.* 2014. 307:C39-54. PMID: 24696140. PMC ID:PMC4080182
24. Crompton BD, Stewart C, Taylor-Weiner A, Alexe G, Kurek KC, Calicchio ML, Kiezun A, Carter SL, Shukla SA, Mehta SS, Thorner AR, de Torres C, Lavarino C, Sunol M, McKenna A, Sivachenko A, Cibulskis K, Lawrence MS, Stojanov P, Rosenberg M, Ambrogio L, Auclair D, Seepo S, Blumenstiel B, DeFelice M, Imaz-Rosshandler I, Schwarz-Cruz YCA, Rivera MN, Rodriguez-Galindo C, Fleming MD, Golub TR, Getz G, Mora J, Stegmaier K: The genomic landscape of pediatric Ewing sarcoma. *Cancer Discov.* 2014. 4:1326-1341. PMID: 25186949
25. Crose LE, Galindo KA, Kephart JG, Chen C, Fitamant J, Bardeesy N, Bentley RC, Galindo RL, Chi JT, Linares CM: Alveolar rhabdomyosarcoma-associated PAX3-FOXO1 promotes tumorigenesis via Hippo pathway suppression. *J Clin Invest.* 2014. 124:285-296. PMID: 24334454. PMC ID:PMC3871220
26. Daniels J, Kadlubar S: Pharmacogenetics of SULT1A1. *Pharmacogenomics.* 2014. 15:1823-1838. PMID: 25493573. PMC ID:PMC4361945
27. Darpolor MM, Basu SS, Worth A, Nelson DS, Clarke-Katzenberg RH, Glickson JD, Kaplan DE, Blair IA: The aspartate metabolism pathway is differentiable in human hepatocellular carcinoma: transcriptomics and (13) C-isotope based metabolomics. *NMR Biomed.* 2014. 27:381-389. PMID: 24497316. PMC ID:PMC3962779

28. Davare MA, Lal S, Peckham JL, Prajapati SI, Gultekin SH, Rubin BP, Keller C: Secreted meningeal chemokines, but not VEGFA, modulate the migratory properties of medulloblastoma cells. *Biochem Biophys Res Commun*. 2014. 450:555-560. PMID: 24928387. PMC ID:PMC4153354
29. DeFilippis RA, Fordyce C, Patten K, Chang H, Zhao J, Fontenay GV, Kerlikowske K, Parvin B, Tlsty TD: Stress signaling from human mammary epithelial cells contributes to phenotypes of mammographic density. *Cancer Res*. 2014. 74:5032-5044. PMID: 25172842. PMC ID:PMC4335659
30. Degagne E, Pandurangan A, Bandhuvula P, Kumar A, Eltanawy A, Zhang M, Yoshinaga Y, Nefedov M, de Jong PJ, Fong LG, Young SG, Bittman R, Ahmed Y, Saba JD: Sphingosine-1-phosphate lyase downregulation promotes colon carcinogenesis through STAT3-activated microRNAs. *J Clin Invest*. 2014. 124:5368-5384. PMID: 25347472. PMC ID:PMC4348973
31. Dellinger AL, Zhou Z, Kepley CL: A steroid-mimicking nanomaterial that mediates inhibition of human lung mast cell responses. *Nanomedicine*. 2014. 10:1185-1193. PMID: 24566277. PMC ID:PMC4119857
32. Divi RL, Lindeman TL, Shockley ME, Keshava C, Weston A, Poirier MC: Correlation between CYP1A1 transcript, protein level, enzyme activity and DNA adduct formation in normal human mammary epithelial cell strains exposed to benzo[a]pyrene. *Mutagenesis*. 2014. 29:409-417. PMID: 25245543. PMC ID:PMC4215068
33. Doitsh G, Galloway NL, Geng X, Yang Z, Monroe KM, Zepeda O, Hunt PW, Hatano H, Sowinski S, Munoz-Arias I, Greene WC: Cell death by pyroptosis drives CD4 T-cell depletion in HIV-1 infection. *Nature*. 2014. 505:509-514. PMID: 24356306. PMC ID:PMC4047036
34. Doros LA, Rossi CT, Yang J, Field A, Williams GM, Messinger Y, Cajas MM, Perlman EJ, K AS, Cathro HP, Legallo RD, LaFortune KA, Chikwava KR, Faria P, Geller JI, Dome JS, Mullen EA, Gratias EJ, Dehner LP, Hill DA: DICER1 mutations in childhood cystic nephroma and its relationship to DICER1-renal sarcoma. *Mod Pathol*. 2014. 27:1267-1280. PMID: 24481001. PMC ID:PMC4117822
35. Duan W, Gao L, Aguila B, Kalvala A, Otterson GA, Villalona-Calero MA: Fanconi anemia repair pathway dysfunction, a potential therapeutic target in lung cancer. *Front Oncol*. 2014. 4:368. PMID: 25566506. PMC ID:PMC4271581
36. Dutta A, Li J, Lu H, Akech J, Pratap J, Wang T, Zerlanko BJ, FitzGerald TJ, Jiang Z, Birbe R, Wixted J, Violette SM, Stein JL, Stein GS, Lian JB, Languino LR: Integrin alphavbeta6 promotes an osteolytic program in cancer cells by upregulating MMP2. *Cancer Res*. 2014. 74:1598-1608. PMID: 24385215. PMC ID:PMC3967411
37. Ellis RJ, Wang Y, Stevenson HS, Boufrajech M, Patel D, Nilubol N, Davis S, Edelman DC, Merino MJ, He M, Zhang L, Meltzer PS, Kebebew E: Genome-wide methylation patterns in papillary thyroid cancer are distinct based on histological subtype and tumor genotype. *J Clin Endocrinol Metab*. 2014. 99:E329-337. PMID: 24423287. PMC ID:PMC3913809
38. Fang H, Liu X, Ramirez J, Choudhury N, Kubo M, Im HK, Konkashbaev A, Cox NJ, Ratain MJ, Nakamura Y, O'Donnell PH: Establishment of CYP2D6 reference samples by multiple validated

genotyping platforms. *Pharmacogenomics J.* 2014. 14:564-572. PMID: 24980783. PMC ID:PMC4237721

39. Feng Q, Crochet JR, Dai Q, Leppert PC, Price TM: Expression of a mitochondrial progesterone receptor (PR-M) in leiomyomata and association with increased mitochondrial membrane potential. *J Clin Endocrinol Metab.* 2014. 99:E390-399. PMID: 24423317. PMC ID:PMC5393478
40. Flanders KC, Heger CD, Conway C, Tang B, Sato M, Dengler SL, Goldsmith PK, Hewitt SM, Wakefield LM: Brightfield proximity ligation assay reveals both canonical and mixed transforming growth factor-beta/bone morphogenetic protein Smad signaling complexes in tissue sections. *J Histochem Cytochem.* 2014. 62:846-863. PMID: 25141865. PMC ID:PMC4244299
41. Frank R, Baloch ZW, Gentile C, Watt CD, LiVolsi VA: Multifocal fibrosing thyroiditis and its association with papillary thyroid carcinoma using BRAF pyrosequencing. *Endocr Pathol.* 2014. 25:236-240. PMID: 24337906
42. Frieze S, O'Geen H, Littlepage LE, Simion C, Sweeney CA, Farnham PJ, Krig SR: Global analysis of ZNF217 chromatin occupancy in the breast cancer cell genome reveals an association with ERalpha. *BMC Genomics.* 2014. 15:520. PMID: 24962896. PMC ID:PMC4082627
43. Garcia B, Francois-Vaughan H, Onikoyi O, Kostadinov S, De Paepe ME, Gruppuso PA, Sanders JA: Xenotransplantation of human fetal adipose tissue: a model of in vivo adipose tissue expansion and adipogenesis. *J Lipid Res.* 2014. 55:2685-2691. PMID: 25193996. PMC ID:PMC4242460
44. Geng X, Doitsh G, Yang Z, Galloway NL, Greene WC: Efficient delivery of lentiviral vectors into resting human CD4 T cells. *Gene Ther.* 2014. 21:444-449. PMID: 24572792. PMC ID:PMC4006095
45. Gorlick S, Barkauskas DA, Krailo M, Piperdi S, Sowers R, Gill J, Geller D, Randall RL, Janeway K, Schwartz C, Grier H, Meyers PA, Gorlick R, Bernstein M, Marina N: HER-2 expression is not prognostic in osteosarcoma; a Children's Oncology Group prospective biology study. *Pediatr Blood Cancer.* 2014. 61:1558-1564. PMID: 24753182. PMC ID:PMC4288578
46. Green HN, Crockett SD, Martyshkin DV, Singh KP, Grizzle WE, Rosenthal EL, Mirov SB: A histological evaluation and in vivo assessment of intratumoral near infrared photothermal nanotherapy-induced tumor regression. *Int J Nanomedicine.* 2014. 9:5093-5102. PMID: 25395847. PMC ID:PMC4227627
47. Greer AK, Dates CR, Starlard-Davenport A, Edavana VK, Bratton SM, Dhakal IB, Finel M, Kadlubar SA, Radominska-Pandya A: A potential role for human UDP-glucuronosyltransferase 1A4 promoter single nucleotide polymorphisms in the pharmacogenomics of tamoxifen and its derivatives. *Drug Metab Dispos.* 2014. 42:1392-1400. PMID: 24917585. PMC ID:PMC4152870
48. Gruber HE, Hoelscher GL, Bethea SF, Menscher EA, Ingram JA, Templin MA, Hanley EN, Jr.: Cortistatin is endogenous to the human intervertebral disc and exerts in vitro mitogenic effects on annulus cells and a downregulatory effect on TNF-alpha expression. *Spine J.* 2014. 14:2995-3001. PMID: 24912122

49. Gruber HE, Hoelscher GL, Ingram JA, Bethea S, Hanley EN, Jr.: Growth and differentiation factor-5 (GDF-5) in the human intervertebral annulus cells and its modulation by IL-1ss and TNF-alpha in vitro. *Exp Mol Pathol*. 2014. 96:225-229. PMID: 24582800
50. Gruber HE, Hoelscher GL, Ingram JA, Bethea S, Norton HJ, Hanley EN, Jr.: Production and expression of RANTES (CCL5) by human disc cells and modulation by IL-1-beta and TNF-alpha in 3D culture. *Exp Mol Pathol*. 2014. 96:133-138. PMID: 24468005
51. Gruber HE, Ingram JA, Cox MD, Hanley EN, Jr.: Matrix metalloproteinase-12 immunolocalization in the degenerating human intervertebral disc and sand rat spine: Biologic implications. *Exp Mol Pathol*. 2014. 97:1-5. PMID: 24768589
52. Guz N, Dokukin M, Kalaparathi V, Sokolov I: If cell mechanics can be described by elastic modulus: study of different models and probes used in indentation experiments. *Biophys J*. 2014. 107:564-575. PMID: 25099796. PMC ID:PMC4129501
53. Hahn MA, Li AX, Wu X, Yang R, Drew DA, Rosenberg DW, Pfeifer GP: Loss of the polycomb mark from bivalent promoters leads to activation of cancer-promoting genes in colorectal tumors. *Cancer Res*. 2014. 74:3617-3629. PMID: 24786786. PMC ID:PMC4079738
54. Hai B, Qin L, Yang Z, Zhao Q, Shanguan L, Ti X, Zhao Y, Kim S, Rangaraj D, Liu F: Transient activation of hedgehog pathway rescued irradiation-induced hyposalivation by preserving salivary stem/progenitor cells and parasympathetic innervation. *Clin Cancer Res*. 2014. 20:140-150. PMID: 24150232. PMC ID:PMC3951215
55. Han S, Czerwinski RM, Caspers NL, Limburg DC, Ding W, Wang H, Ohren JF, Rajamohan F, McLellan TJ, Unwalla R, Choi C, Parikh MD, Seth N, Edmonds J, Phillips C, Shakya S, Li X, Spaulding V, Hughes S, Cook A, Robinson C, Mathias JP, Navratilova I, Medley QG, Anderson DR, Kurumbail RG, Aulabaugh A: Selectively targeting an inactive conformation of interleukin-2-inducible T-cell kinase by allosteric inhibitors. *Biochem J*. 2014. 460:211-222. PMID: 24593284
56. Hartman KG, Bortner JD, Jr., Falk GW, Ginsberg GG, Jhala N, Yu J, Martin MG, Rustgi AK, Lynch JP: Modeling human gastrointestinal inflammatory diseases using microphysiological culture systems. *Exp Biol Med (Maywood)*. 2014. 239:1108-1123. PMID: 24781339. PMC ID:PMC4156523
57. Hernandez-Ramon EE, Sandoval NA, John K, Cline JM, Wood CE, Woodward RA, Poirier MC: Tamoxifen-DNA adduct formation in monkey and human reproductive organs. *Carcinogenesis*. 2014. 35:1172-1176. PMID: 24501327. PMC ID:PMC4004208
58. Hines WC, Su Y, Kuhn I, Polyak K, Bissell MJ: Sorting out the FACS: a devil in the details. *Cell Rep*. 2014. 6:779-781. PMID: 24630040
59. Huang YW, Kuo CT, Chen JH, Goodfellow PJ, Huang TH, Rader JS, Uyar DS: Hypermethylation of miR-203 in endometrial carcinomas. *Gynecol Oncol*. 2014. 133:340-345. PMID: 24530564. PMC ID:PMC4015135
60. Huck JJ, Zhang M, Mettetal J, Chakravarty A, Venkatakrisnan K, Zhou X, Kleinfeld R, Hyer ML, Kannan K, Shinde V, Dorner A, Manfredi MG, Shyu WC, Ecsedy JA: Translational exposure-efficacy modeling to optimize the dose and schedule of taxanes combined with the

investigational Aurora A kinase inhibitor MLN8237 (alisertib). *Mol Cancer Ther.* 2014. 13:2170-2183. PMID: 24980948

61. Hund TJ, Snyder JS, Wu X, Glynn P, Koval OM, Onal B, Leymaster ND, Unudurthi SD, Curran J, Camardo C, Wright PJ, Binkley PF, Anderson ME, Mohler PJ: beta(IV)-Spectrin regulates TREK-1 membrane targeting in the heart. *Cardiovasc Res.* 2014. 102:166-175. PMID: 24445605. PMC ID:PMC3958619
62. Hussein KA, Choksi K, Akeel S, Ahmad S, Megyerdi S, El-Sherbiny M, Nawaz M, Abu El-Asrar A, Al-Shabrawey M: Bone morphogenetic protein 2: a potential new player in the pathogenesis of diabetic retinopathy. *Exp Eye Res.* 2014. 125:79-88. PMID: 24910902. PMC ID:PMC4122600
63. Isozaki T, Amin MA, Ruth JH, Campbell PL, Tsou PS, Ha CM, Stinson WA, Domino SE, Koch AE: Fucosyltransferase 1 mediates angiogenesis in rheumatoid arthritis. *Arthritis Rheumatol.* 2014. 66:2047-2058. PMID: 24692243. PMC ID:PMC4426876
64. Isozaki T, Ruth JH, Amin MA, Campbell PL, Tsou PS, Ha CM, Haines GK, Edhayan G, Koch AE: Fucosyltransferase 1 mediates angiogenesis, cell adhesion and rheumatoid arthritis synovial tissue fibroblast proliferation. *Arthritis Res Ther.* 2014. 16:R28. PMID: 24467809. PMC ID:PMC3978694
65. Jiang Y, Prabakaran I, Wan F, Mitra N, Furstenau DK, Hung RK, Cao S, Zhang PJ, Fraker DL, Guvakova MA: Vav2 protein overexpression marks and may predict the aggressive subtype of ductal carcinoma in situ. *Biomark Res.* 2014. 2:22. PMID: 25785189. PMC ID:PMC4362647
66. Johnson MD, Reeder JE, O'Connell M, Woodford M, Walter K: CIP2A and PP2A in human leptomeninges, arachnoid granulations and meningiomas. *J Clin Neurosci.* 2014. 21:2228-2232. PMID: 25012485
67. Jones J, Wang H, Karanam B, Theodore S, Dean-Colomb W, Welch DR, Grizzle W, Yates C: Nuclear localization of Kaiso promotes the poorly differentiated phenotype and EMT in infiltrating ductal carcinomas. *Clin Exp Metastasis.* 2014. 31:497-510. PMID: 24570268. PMC ID:PMC4065802
68. Joshi BH, Leland P, Lababidi S, Varrichio F, Puri RK: Interleukin-4 receptor alpha overexpression in human bladder cancer correlates with the pathological grade and stage of the disease. *Cancer Med.* 2014. 3:1615-1628. PMID: 25208941. PMC ID:PMC4298388
69. Kanwal R, Pandey M, Bhaskaran N, Maclennan GT, Fu P, Ponsky LE, Gupta S: Protection against oxidative DNA damage and stress in human prostate by glutathione S-transferase P1. *Mol Carcinog.* 2014. 53:8-18. PMID: 22833520. PMC ID:PMC4018746
70. Karlsson J, Holmquist Mengelbier L, Ciornei CD, Naranjo A, O'Sullivan MJ, Gisselsson D: Clear cell sarcoma of the kidney demonstrates an embryonic signature indicative of a primitive nephrogenic origin. *Genes Chromosomes Cancer.* 2014. 53:381-391. PMID: 24488803. PMC ID:PMC4334316
71. Kato T, Franconi CP, Sheridan MB, Hacker AM, Inagakai H, Glover TW, Arlt MF, Drabkin HA, Gemmill RM, Kurahashi H, Emanuel BS: Analysis of the t(3;8) of hereditary renal cell carcinoma: a palindrome-mediated translocation. *Cancer Genet.* 2014. 207:133-140. PMID: 24813807. PMC ID:PMC4102306

72. Kelner MJ, Diccianni MB, Yu AL, Rutherford MR, Estes LA, Morgenstern R: Absence of MGST1 mRNA and protein expression in human neuroblastoma cell lines and primary tissue. *Free Radic Biol Med.* 2014. 69:167-171. PMID: 24486338. PMC ID:PMC4010302
73. Kleiman DA, Beninato T, Sultan S, Crowley MJ, Finnerty B, Kumar R, Panarelli NC, Liu YF, Lieberman MD, Seandel M, Evans T, Elemento O, Zarnegar R, Fahey TJ, 3rd: Silencing of UCHL1 by CpG promoter hyper-methylation is associated with metastatic gastroenteropancreatic well-differentiated neuroendocrine (carcinoid) tumors. *Ann Surg Oncol.* 2014. 21 Suppl 4:S672-679. PMID: 24854489. PMC ID:PMC4378537
74. Koerner JD, Markova DZ, Yadla S, Mendelis J, Hilibrand A, Vaccaro AR, Risbud MV, Albert TJ, Anderson DG, Kepler CK: Differential gene expression in anterior and posterior annulus fibrosus. *Spine (Phila Pa 1976).* 2014. 39:1917-1923. PMID: 25365709
75. Krishnaiah YS, Yang Y, Hunt RL, Khan MA: Cold flow of estradiol transdermal systems: influence of drug loss on the in vitro flux and drug transfer across human epidermis. *Int J Pharm.* 2014. 477:73-80. PMID: 25311180
76. Kumar SM, Dai J, Li S, Yang R, Yu H, Nathanson KL, Liu S, Zhou H, Guo J, Xu X: Human skin neural crest progenitor cells are susceptible to BRAF(V600E)-induced transformation. *Oncogene.* 2014. 33:832-841. PMID: 23334329. PMC ID:PMC3695032
77. Laubli H, Alisson-Silva F, Stanczak MA, Siddiqui SS, Deng L, Verhagen A, Varki N, Varki A: Lectin galactoside-binding soluble 3 binding protein (LGALS3BP) is a tumor-associated immunomodulatory ligand for CD33-related Siglecs. *J Biol Chem.* 2014. 289:33481-33491. PMID: 25320078. PMC ID:PMC4246102
78. Lei Q, Pan XQ, Chang S, Malkowicz SB, Guzzo TJ, Malykhina AP: Response of the human detrusor to stretch is regulated by TREK-1, a two-pore-domain (K2P) mechano-gated potassium channel. *J Physiol.* 2014. 592:3013-3030. PMID: 24801307. PMC ID:PMC4214657
79. Li B, Qiu B, Lee DS, Walton ZE, Ochocki JD, Mathew LK, Mancuso A, Gade TP, Keith B, Nissim I, Simon MC: Fructose-1,6-bisphosphatase opposes renal carcinoma progression. *Nature.* 2014. 513:251-255. PMID: 25043030. PMC ID:PMC4162811
80. Li H, Hsu HC, Wu Q, Yang P, Li J, Luo B, Oukka M, Steele CH, 3rd, Cua DJ, Grizzle WE, Mountz JD: IL-23 promotes TCR-mediated negative selection of thymocytes through the upregulation of IL-23 receptor and RORgammat. *Nat Commun.* 2014. 5:4259. PMID: 25001511. PMC ID:PMC4136447
81. Liu L, Shastry S, Byan-Parker S, Houser G, K KC, Birket SE, Fernandez CM, Gardecki JA, Grizzle WE, Wilsterman EJ, Sorscher EJ, Rowe SM, Tearney GJ: An autoregulatory mechanism governing mucociliary transport is sensitive to mucus load. *Am J Respir Cell Mol Biol.* 2014. 51:485-493. PMID: 24937762. PMC ID:PMC4189485
82. Liu W, Ramirez J, Gamazon ER, Mirkov S, Chen P, Wu K, Sun C, Cox NJ, Cook E, Jr., Das S, Ratain MJ: Genetic factors affecting gene transcription and catalytic activity of UDP-glucuronosyltransferases in human liver. *Hum Mol Genet.* 2014. 23:5558-5569. PMID: 24879639. PMC ID:PMC4168829

83. Londono-Joshi AI, Arend RC, Aristizabal L, Lu W, Samant RS, Metge BJ, Hidalgo B, Grizzle WE, Conner M, Forero-Torres A, Lobuglio AF, Li Y, Buchsbaum DJ: Effect of niclosamide on basal-like breast cancers. *Mol Cancer Ther.* 2014. 13:800-811. PMID: 24552774. PMC ID:PMC3981919
84. Lorca RA, Stamnes SJ, Pillai MK, Hsiao JJ, Wright ME, England SK: N-terminal isoforms of the large-conductance Ca(2+)-activated K(+) channel are differentially modulated by the auxiliary beta1-subunit. *J Biol Chem.* 2014. 289:10095-10103. PMID: 24569989. PMC ID:PMC3974980
85. Luo Y, Wong CJ, Kaz AM, Dzieciatkowski S, Carter KT, Morris SM, Wang J, Willis JE, Makar KW, Ulrich CM, Lutterbaugh JD, Shrubsole MJ, Zheng W, Markowitz SD, Grady WM: Differences in DNA methylation signatures reveal multiple pathways of progression from adenoma to colorectal cancer. *Gastroenterology.* 2014. 147:418-429 e418. PMID: 24793120. PMC ID:PMC4107146
86. Ma JX, Yan BX, Zhang J, Jiang BH, Guo Y, Riedel H, Mueller MD, Remick SC, Yu JJ: PSP94, an upstream signaling mediator of prostasin found highly elevated in ovarian cancer. *Cell Death Dis.* 2014. 5:e1407. PMID: 25188517. PMC ID:PMC4540204
87. MacKenzie TA, Schwartz GN, Calderone HM, Graveel CR, Winn ME, Hostetter G, Wells WA, Sempere LF: Stromal expression of miR-21 identifies high-risk group in triple-negative breast cancer. *Am J Pathol.* 2014. 184:3217-3225. PMID: 25440114. PMC ID:PMC4258602
88. Mandal S, Abebe F, Chaudhary J: -174G/C polymorphism in the interleukin-6 promoter is differently associated with prostate cancer incidence depending on race. *Genet Mol Res.* 2014. 13:139-151. PMID: 24446297. PMC ID:PMC4038121
89. Manna SK, Tanaka N, Krausz KW, Haznadar M, Xue X, Matsubara T, Bowman ED, Fearon ER, Harris CC, Shah YM, Gonzalez FJ: Biomarkers of coordinate metabolic reprogramming in colorectal tumors in mice and humans. *Gastroenterology.* 2014. 146:1313-1324. PMID: 24440673. PMC ID:PMC3992178
90. Mariotti ET, Premanandan C, Lorch G: Canine pulmonary adenocarcinoma tyrosine kinase receptor expression and phosphorylation. *BMC Vet Res.* 2014. 10:19. PMID: 24423144. PMC ID:PMC3896673
91. Markadieu N, Rios K, Spiller BW, McDonald WH, Welling PA, Delpire E: Short forms of Ste20-related proline/alanine-rich kinase (SPAK) in the kidney are created by aspartyl aminopeptidase (Dnpep)-mediated proteolytic cleavage. *J Biol Chem.* 2014. 289:29273-29284. PMID: 25164821. PMC ID:PMC4200278
92. Mathis SE, Alberico A, Nande R, Neto W, Lawrence L, McCallister DR, Denvir J, Kimmey GA, Mogul M, Oakley G, 3rd, Denning KL, Dougherty T, Valluri JV, Claudio PP: Chemo-predictive assay for targeting cancer stem-like cells in patients affected by brain tumors. *PLoS One.* 2014. 9:e105710. PMID: 25144312. PMC ID:PMC4140819
93. Mehrabi S, Partridge EE, Seffens W, Yao X, Aikhionbare FO: Oxidatively modified proteins in the serous subtype of ovarian carcinoma. *Biomed Res Int.* 2014. 2014:585083. PMID: 24795885. PMC ID:PMC3985143

94. Michailidi C, Soudry E, Brait M, Maldonado L, Jaffe A, Ili-Gangas C, Brebi-Mieville P, Perez J, Kim MS, Zhong X, Yang Q, Valle B, Meltzer SJ, Torbenson M, Esteller M, Sidransky D, Guerrero-Preston R: Genome-wide and gene-specific epigenomic platforms for hepatocellular carcinoma biomarker development trials. *Gastroenterol Res Pract.* 2014. 2014:597164. PMID: 24829571. PMC ID:PMC4009191
95. Mobasher A, Barrett-Jolley R: Aquaporin water channels in the mammary gland: from physiology to pathophysiology and neoplasia. *J Mammary Gland Biol Neoplasia.* 2014. 19:91-102. PMID: 24338153. PMC ID:PMC3947960
96. Mohamed SA, Atta IS, Rowan BG, Desouki MM: ERalpha and ERK1/2 MAP kinase expression in microdissected stromal and epithelial endometrial cells. *J Egypt Natl Canc Inst.* 2014. 26:37-41. PMID: 24565681
97. Monroe KM, Yang Z, Johnson JR, Geng X, Doitsh G, Krogan NJ, Greene WC: IFI16 DNA sensor is required for death of lymphoid CD4 T cells abortively infected with HIV. *Science.* 2014. 343:428-432. PMID: 24356113. PMC ID:PMC3976200
98. Monument MJ, Johnson KM, McIlvaine E, Abegglen L, Watkins WS, Jorde LB, Womer RB, Beeler N, Monovich L, Lawlor ER, Bridge JA, Schiffman JD, Krailo MD, Randall RL, Lessnick SL: Clinical and biochemical function of polymorphic NR0B1 GGAA-microsatellites in Ewing sarcoma: a report from the Children's Oncology Group. *PLoS One.* 2014. 9:e104378. PMID: 25093581. PMC ID:PMC4122435
99. Morgenstern DA, London WB, Stephens D, Volchenboum SL, Hero B, Di Cataldo A, Nakagawara A, Shimada H, Ambros PF, Matthay KK, Cohn SL, Pearson AD, Irwin MS: Metastatic neuroblastoma confined to distant lymph nodes (stage 4N) predicts outcome in patients with stage 4 disease: A study from the International Neuroblastoma Risk Group Database. *J Clin Oncol.* 2014. 32:1228-1235. PMID: 24663047. PMC ID:PMC4876342
100. Myers MB, McKim KL, Parsons BL: A subset of papillary thyroid carcinomas contain KRAS mutant subpopulations at levels above normal thyroid. *Mol Carcinog.* 2014. 53:159-167. PMID: 22930660
101. Nakamura Y, Hattangady NG, Ye P, Satoh F, Morimoto R, Ito-Saito T, Sugawara A, Ohba K, Takahashi K, Rainey WE, Sasano H: Aberrant gonadotropin-releasing hormone receptor (GnRHR) expression and its regulation of CYP11B2 expression and aldosterone production in adrenal aldosterone-producing adenoma (APA). *Mol Cell Endocrinol.* 2014. 384:102-108. PMID: 24472523. PMC ID:PMC4242414
102. Nandhu MS, Hu B, Cole SE, Erdreich-Epstein A, Rodriguez-Gil DJ, Viapiano MS: Novel paracrine modulation of Notch-DLL4 signaling by fibulin-3 promotes angiogenesis in high-grade gliomas. *Cancer Res.* 2014. 74:5435-5448. PMID: 25139440. PMC ID:PMC4184948
103. Ning MS, Kim AS, Prasad N, Levy SE, Zhang H, Andl T: Characterization of the Merkel cell carcinoma miRNome. *J Skin Cancer.* 2014. 2014:289548. PMID: 24627810. PMC ID:PMC3929981
104. Nolen BM, Brand RE, Prosser D, Velikokhatnaya L, Allen PJ, Zeh HJ, Grizzle WE, Huang Y, Lomakin A, Lokshin AE: Prediagnostic serum biomarkers as early detection tools for pancreatic

- cancer in a large prospective cohort study. *PLoS One*. 2014. 9:e94928. PMID: 24747429. PMC ID:PMC3991628
105. Oh P, Testa JE, Borgstrom P, Witkiewicz H, Li Y, Schnitzer JE: In vivo proteomic imaging analysis of caveolae reveals pumping system to penetrate solid tumors. *Nat Med*. 2014. 20:1062-1068. PMID: 25129480
 106. Ortenberg R, Galore-Haskel G, Greenberg I, Zamlin B, Sapoznik S, Greenberg E, Barshack I, Avivi C, Feiler Y, Zan-Bar I, Besser MJ, Azizi E, Eitan F, Schachter J, Markel G: CEACAM1 promotes melanoma cell growth through Sox-2. *Neoplasia*. 2014. 16:451-460. PMID: 24931667. PMC ID:PMC4198694
 107. Padler-Karavani V, Hurtado-Ziola N, Chang YC, Sonnenburg JL, Ronaghy A, Yu H, Verhagen A, Nizet V, Chen X, Varki N, Varki A, Angata T: Rapid evolution of binding specificities and expression patterns of inhibitory CD33-related Siglecs in primates. *FASEB J*. 2014. 28:1280-1293. PMID: 24308974. PMC ID:PMC3929681
 108. Pang L, Word B, Xu J, Wang H, Hammons G, Huang SM, Lyn-Cook B: ATP-binding cassette genes genotype and expression: A potential association with pancreatic cancer development and chemoresistance? *Gastroenterol Res Pract*. 2014. 2014:414931. PMID: 24883056. PMC ID:PMC4026978
 109. Parray A, Siddique HR, Kuriger JK, Mishra SK, Rhim JS, Nelson HH, Aburatani H, Konety BR, Koochekpour S, Saleem M: ROBO1, a tumor suppressor and critical molecular barrier for localized tumor cells to acquire invasive phenotype: study in African-American and Caucasian prostate cancer models. *Int J Cancer*. 2014. 135:2493-2506. PMID: 24752651. PMC ID:PMC4610361
 110. Patil CA, Pence IJ, Lieber CA, Mahadevan-Jansen A: 1064 nm dispersive Raman spectroscopy of tissues with strong near-infrared autofluorescence. *Opt Lett*. 2014. 39:303-306. PMID: 24562132
 111. Peng D, Hu T, Soutto M, Belkhiri A, Zaika A, El-Rifai W: Glutathione peroxidase 7 has potential tumour suppressor functions that are silenced by location-specific methylation in oesophageal adenocarcinoma. *Gut*. 2014. 63:540-551. PMID: 23580780. PMC ID:PMC3825783
 112. Peng DF, Hu TL, Soutto M, Belkhiri A, El-Rifai W: Glutathione peroxidase 7 suppresses bile salt-induced expression of pro-inflammatory cytokines in Barrett's carcinogenesis. *J Cancer*. 2014. 5:510-517. PMID: 24963355. PMC ID:PMC4067510
 113. Penney RB, Lundgreen A, Yao-Borengasser A, Edavana VK, Williams S, Dhakal I, Wolff RK, Kadlubar S, Slattery ML: CYP19A1 single nucleotide polymorphism associations with CYP19A1, NFkappaB1, and IL6 gene expression in human normal colon and normal liver samples. *Pharmacogenomics Pers Med*. 2014. 7:163-171. PMID: 25114581. PMC ID:PMC4109316
 114. Price JC, Pollock LM, Rudd ML, Fogoros SK, Mohamed H, Hanigan CL, Le Gallo M, Zhang S, Cruz P, Cherukuri PF, Hansen NF, McManus KJ, Godwin AK, Sgroi DC, Mullikin JC, Merino MJ, Hieter P, Bell DW: Sequencing of candidate chromosome instability genes in endometrial cancers reveals somatic mutations in ESCO1, CHTF18, and MRE11A. *PLoS One*. 2014. 8:e63313. PMID: 23755103. PMC ID:PMC3670891

115. Prieto DA, Johann DJ, Jr., Wei BR, Ye X, Chan KC, Nissley DV, Simpson RM, Citrin DE, Mackall CL, Linehan WM, Blonder J: Mass spectrometry in cancer biomarker research: a case for immunodepletion of abundant blood-derived proteins from clinical tissue specimens. *Biomark Med.* 2014. 8:269-286. PMID: 24521024. PMC ID:PMC4201940
116. Pu Y, Sordillo LA, Yang Y, Alfano RR: Key native fluorophores analysis of human breast cancer tissues using Gram-Schmidt subspace method. *Opt Lett.* 2014. 39:6787-6790. PMID: 25502997
117. Quinones-Lombrana A, Ferguson D, Hageman Blair R, Kalabus JL, Redzematovic A, Blanco JG: Interindividual variability in the cardiac expression of anthracycline reductases in donors with and without Down syndrome. *Pharm Res.* 2014. 31:1644-1655. PMID: 24562808. PMC ID:PMC4065192
118. Radhakrishnan VM, Kojs P, Young G, Ramalingam R, Jagadish B, Mash EA, Martinez JD, Ghishan FK, Kiela PR: pTyr421 cortactin is overexpressed in colon cancer and is dephosphorylated by curcumin: involvement of non-receptor type 1 protein tyrosine phosphatase (PTPN1). *PLoS One.* 2014. 9:e85796. PMID: 24465712. PMC ID:PMC3899080
119. Rudd ML, Mohamed H, Price JC, O'Hara AJ, Le Gallo M, Urick ME, Cruz P, Zhang S, Hansen NF, Godwin AK, Sgroi DC, Wolfsberg TG, Mullikin JC, Merino MJ, Bell DW: Mutational analysis of the tyrosine kinome in serous and clear cell endometrial cancer uncovers rare somatic mutations in TNK2 and DDR1. *BMC Cancer.* 2014. 14:884. PMID: 25427824. PMC ID:PMC4258955
120. Rudzinski ER, Anderson JR, Lyden ER, Bridge JA, Barr FG, Gastier-Foster JM, Bachmeyer K, Skapek SX, Hawkins DS, Teot LA, Parham DM: Myogenin, AP2beta, NOS-1, and HMGA2 are surrogate markers of fusion status in rhabdomyosarcoma: a report from the soft tissue sarcoma committee of the Children's Oncology Group. *Am J Surg Pathol.* 2014. 38:654-659. PMID: 24618610. PMC ID:PMC4010390
121. Salloum-Asfar S, Teruel-Montoya R, Arroyo AB, Garcia-Barbera N, Chaudhry A, Schuetz E, Luengo-Gil G, Vicente V, Gonzalez-Conejero R, Martinez C: Regulation of coagulation factor XI expression by microRNAs in the human liver. *PLoS One.* 2014. 9:e111713. PMID: 25379760. PMC ID:PMC4224396
122. Salz T, Li G, Kaye F, Zhou L, Qiu Y, Huang S: hSETD1A regulates Wnt target genes and controls tumor growth of colorectal cancer cells. *Cancer Res.* 2014. 74:775-786. PMID: 24247718
123. Samulski TD, LiVolsi VA, Baloch Z: The cytopathologic features of mammary analog secretory carcinoma and its mimics. *Cytojournal.* 2014. 11:24. PMID: 25210531. PMC ID:PMC4158621
124. Scaling AL, Prossnitz ER, Hathaway HJ: GPER mediates estrogen-induced signaling and proliferation in human breast epithelial cells and normal and malignant breast. *Horm Cancer.* 2014. 5:146-160. PMID: 24718936. PMC ID:PMC4091989
125. Schneider G, Bowser MJ, Shin DM, Barr FG, Ratajczak MZ: The paternally imprinted DLK1-GTL2 locus is differentially methylated in embryonal and alveolar rhabdomyosarcomas. *Int J Oncol.* 2014. 44:295-300. PMID: 24173021. PMC ID:PMC3867365

126. Scorsone K, Zhang L, Woodfield SE, Hicks J, Zage PE: The novel kinase inhibitor EMD1214063 is effective against neuroblastoma. *Invest New Drugs* 2014. 32: 815. <https://doi.org/10.1007/s10637-014-0107-4>
127. Shaker M, Pascarelli KM, Plantinga MJ, Love MA, Lazar AJ, Ingram DR, von Mehren M, Lev D, Kipling D, Broccoli D: Differential expression of cysteine dioxygenase 1 in complex karyotype liposarcomas. *Biomark Cancer*. 2014. 6:1-10. PMID: 24741338. PMC ID:PMC3981480
128. Shern JF, Chen L, Chmielecki J, Wei JS, Patidar R, Rosenberg M, Ambrogio L, Auclair D, Wang J, Song YK, Tolman C, Hurd L, Liao H, Zhang S, Bogen D, Brohl AS, Sindiri S, Catchpoole D, Badgett T, Getz G, Mora J, Anderson JR, Skapek SX, Barr FG, Meyerson M, Hawkins DS, Khan J: Comprehensive genomic analysis of rhabdomyosarcoma reveals a landscape of alterations affecting a common genetic axis in fusion-positive and fusion-negative tumors. *Cancer Discov*. 2014. 4:216-231. PMID: 24436047. PMC ID:PMC4462130
129. Siller M, Goyal S, Yoshimoto FK, Xiao Y, Wei S, Guengerich FP: Oxidation of endogenous N-arachidonoylserotonin by human cytochrome P450 2U1. *J Biol Chem*. 2014. 289:10476-10487. PMID: 24563460. PMC ID:PMC4036169
130. Slattery ML, Lundgreen A, Mullany LE, Penney RB, Wolff RK: Influence of CHIEF pathway genes on gene expression: a pathway approach to functionality. *Int J Mol Epidemiol Genet*. 2014. 5:100-111. PMID: 24959314. PMC ID:PMC4065398
131. Smith AA: Finding the best antibody dilution by repeated immunostaining of the same tissue section. *Biotech Histochem*. 2014. 89:215-219. PMID: 24047151
132. Sokolowski E, Turina CB, Kikuchi K, Langenau DM, Keller C: Proof-of-concept rare cancers in drug development: the case for rhabdomyosarcoma. *Oncogene*. 2014. 33:1877-1889. PMID: 23665679
133. Sordillo LA, Pu Y, Pratavieira S, Budansky Y, Alfano RR: Deep optical imaging of tissue using the second and third near-infrared spectral windows. *J Biomed Opt*. 2014. 19:056004. PMID: 24805808
134. Sordillo LA, Sordillo PP, Budansky Y, Pu Y, Alfano RR: Differences in fluorescence profiles from breast cancer tissues due to changes in relative tryptophan content via energy transfer: tryptophan content correlates with histologic grade and tumor size but not with lymph node metastases. *J Biomed Opt*. 2014. 19:125002. PMID: 25521053
135. Spencer JD, Schwaderer AL, Eichler T, Wang H, Kline J, Justice SS, Cohen DM, Hains DS: An endogenous ribonuclease inhibitor regulates the antimicrobial activity of ribonuclease 7 in the human urinary tract. *Kidney Int*. 2014. 85:1179-1191. PMID: 24107847. PMC ID:PMC3981961
136. Sredni ST, Huang CC, Pundy T, Patel K, Halpern AL, Grupenmacher AT, Chou PM, Bonaldo Mde F, Tomita T: A gene signature for a long-term survivor of an atypical teratoid/rhabdoid tumor. *Cancer Genet*. 2014. 207:420-424. PMID: 25052142
137. Strasinger C, Paudel KS, Wu J, Hammell D, Pinninti RR, Hinds BJ, Stinchcomb A: Programmable transdermal clonidine delivery through voltage-gated carbon nanotube membranes. *J Pharm Sci*. 2014. 103:1829-1838. PMID: 24788096. PMC ID:PMC4218846

138. Stypula-Cyrus Y, Mutyal NN, Dela Cruz M, Kunte DP, Radosevich AJ, Wali R, Roy HK, Backman V: End-binding protein 1 (EB1) up-regulation is an early event in colorectal carcinogenesis. *FEBS Lett.* 2014. 588:829-835. PMID: 24492008. PMC ID:PMC4103177
139. Sussman D, Smith LM, Anderson ME, Duniho S, Hunter JH, Kostner H, Miyamoto JB, Nesterova A, Westendorf L, Van Epps HA, Whiting N, Benjamin DR: SGN-LIV1A: a novel antibody-drug conjugate targeting LIV-1 for the treatment of metastatic breast cancer. *Mol Cancer Ther.* 2014. 13:2991-3000. PMID: 25253783
Sussman DA, Santaolalla R, Bejarano PA, Garcia-Buitrago MT, Perez MT, Abreu MT, Clarke J: In silico and Ex vivo approaches identify a role for toll-like receptor 4 in colorectal cancer. *J Exp Clin Cancer Res.* 2014. 33:45. PMID: 24887394. PMC ID:PMC4046523
140. Tan D, Chen KE, Deng C, Tang P, Huang J, Mansour T, Luben RA, Walker AM: An N-terminal splice variant of human Stat5a that interacts with different transcription factors is the dominant form expressed in invasive ductal carcinoma. *Cancer Lett.* 2014. 346:148-157. PMID: 24384092. PMC ID:PMC3959904
141. Tegla CA, Azimzadeh P, Andrian-Albescu M, Martin A, Cudrici CD, Trippe R, 3rd, Sugarman A, Chen H, Boodhoo D, Vlaicu SI, Royal W, 3rd, Bever C, Rus V, Rus H: SIRT1 is decreased during relapses in patients with multiple sclerosis. *Exp Mol Pathol.* 2014. 96:139-148. PMID: 24397908
142. Theodore SC, Davis M, Zhao F, Wang H, Chen D, Rhim J, Dean-Colomb W, Turner T, Ji W, Zeng G, Grizzle W, Yates C: MicroRNA profiling of novel African American and Caucasian prostate cancer cell lines reveals a reciprocal regulatory relationship of miR-152 and DNA methyltransferase 1. *Oncotarget.* 2014. 5:3512-3525. PMID: 25004396. PMC ID:PMC4116499
143. Thomas P, Pang Y, Dong J, Berg AH: Identification and characterization of membrane androgen receptors in the ZIP9 zinc transporter subfamily: II. Role of human ZIP9 in testosterone-induced prostate and breast cancer cell apoptosis. *Endocrinology.* 2014. 155:4250-4265. PMID: 25014355. PMC ID:PMC4197988
144. Timp W, Bravo HC, McDonald OG, Goggins M, Umbricht C, Zeiger M, Feinberg AP, Irizarry RA: Large hypomethylated blocks as a universal defining epigenetic alteration in human solid tumors. *Genome Med.* 2014. 6:61. PMID: 25191524. PMC ID:PMC4154522
145. Todaro M, Gaggianesi M, Catalano V, Benfante A, Iovino F, Biffoni M, Apuzzo T, Sperduti I, Volpe S, Cocorullo G, Gulotta G, Dieli F, De Maria R, Stassi G: CD44v6 is a marker of constitutive and reprogrammed cancer stem cells driving colon cancer metastasis. *Cell Stem Cell.* 2014. 14:342-356. PMID: 24607406
146. Torrezan GT, Ferreira EN, Nakahata AM, Barros BD, Castro MT, Correa BR, Krepischi AC, Olivieri EH, Cunha IW, Tabori U, Grundy PE, Costa CM, de Camargo B, Galante PA, Carraro DM: Recurrent somatic mutation in DROSHA induces microRNA profile changes in Wilms tumour. *Nat Commun.* 2014. 5:4039. PMID: 24909261. PMC ID:PMC4062040
147. Tripathi MK, Deane NG, Zhu J, An H, Mima S, Wang X, Padmanabhan S, Shi Z, Prodduturi N, Ciombor KK, Chen X, Washington MK, Zhang B, Beauchamp RD: Nuclear factor of activated T-cell activity is associated with metastatic capacity in colon cancer. *Cancer Res.* 2014. 74:6947-6957. PMID: 25320007. PMC ID:PMC4252979

148. Tyagi N, Bhardwaj A, Singh AP, McClellan S, Carter JE, Singh S: p-21 activated kinase 4 promotes proliferation and survival of pancreatic cancer cells through AKT- and ERK-dependent activation of NF-kappaB pathway. *Oncotarget*. 2014. 5:8778-8789. PMID: 25238288. PMC ID:PMC4226721
149. Varley KE, Gertz J, Roberts BS, Davis NS, Bowling KM, Kirby MK, Nesmith AS, Oliver PG, Grizzle WE, Forero A, Buchsbaum DJ, LoBuglio AF, Myers RM: Recurrent read-through fusion transcripts in breast cancer. *Breast Cancer Res Treat*. 2014. 146:287-297. PMID: 24929677. PMC ID:PMC4085473
150. Veena MS, Wilken R, Zheng JY, Gholkar A, Venkatesan N, Vira D, Ahmed S, Basak SK, Dalgard CL, Ravichandran S, Batra RK, Kasahara N, Elashoff D, Fishbein MC, Whitelegge JP, Torres JZ, Wang MB, Srivatsan ES: p16 Protein and gigaxonin are associated with the ubiquitination of NFkappaB in cisplatin-induced senescence of cancer cells. *J Biol Chem*. 2014. 289:34921-34937. PMID: 25331947. PMC ID:PMC4263890
151. Wallace TA, Downey RF, Seufert CJ, Schetter A, Dorsey TH, Johnson CA, Goldman R, Loffredo CA, Yan P, Sullivan FJ, Giles FJ, Wang-Johanning F, Ambs S, Glynn SA: Elevated HERV-K mRNA expression in PBMC is associated with a prostate cancer diagnosis particularly in older men and smokers. *Carcinogenesis*. 2014. 35:2074-2083. PMID: 24858205. PMC ID:PMC4146419
152. Wang C, Thudium KB, Han M, Wang XT, Huang H, Feingersh D, Garcia C, Wu Y, Kuhne M, Srinivasan M, Singh S, Wong S, Garner N, Leblanc H, Bunch RT, Blanset D, Selby MJ, Korman AJ: In vitro characterization of the anti-PD-1 antibody nivolumab, BMS-936558, and in vivo toxicology in non-human primates. *Cancer Immunol Res*. 2014. 2:846-856. PMID: 24872026
153. Wang Q, Peng D, Zhu S, Chen Z, Hu T, Soutto M, Saad R, Zhang S, Ei-Rifai W: Regulation of desmocollin3 expression by promoter hypermethylation is associated with advanced esophageal adenocarcinomas. *J Cancer*. 2014. 5:457-464. PMID: 24847386. PMC ID:PMC4026999
154. Weston C, Connor J: Evidence for the influence of the iron regulatory MHC Class I molecule HFE on tumor progression in experimental models and clinical populations. *Transl Oncogenomics*. 2014. 6:1-12. PMID: 25520556. PMC ID:PMC4259395
155. Yan BX, Ma JX, Zhang J, Guo Y, Mueller MD, Remick SC, Yu JJ: Prostatin may contribute to chemoresistance, repress cancer cells in ovarian cancer, and is involved in the signaling pathways of CASP/PAK2-p34/actin. *Cell Death Dis*. 2014. 5:e995. PMID: 24434518. PMC ID:PMC4043260
156. Yan BX, Ma JX, Zhang J, Guo Y, Riedel H, Mueller MD, Remick SC, Yu JJ: PSP94 contributes to chemoresistance and its peptide derivative PCK3145 represses tumor growth in ovarian cancer. *Oncogene*. 2014. 33:5288-5294. PMID: 24186202
157. Yang R, Zheng Y, Burrows M, Liu S, Wei Z, Nace A, Guo W, Kumar S, Cotsarelis G, Xu X: Generation of folliculogenic human epithelial stem cells from induced pluripotent stem cells. *Nat Commun*. 2014. 5:3071. PMID: 24468981. PMC ID:PMC4049184

158. Yang R, Zheng Y, Li L, Liu S, Burrows M, Wei Z, Nace A, Herlyn M, Cui R, Guo W, Cotsarelis G, Xu X: Direct conversion of mouse and human fibroblasts to functional melanocytes by defined factors. *Nat Commun*. 2014. 5:5807. PMID: 25510211. PMC ID:PMC4335710
159. Yao-Borengasser A, Rogers LJ, Edavana VK, Penney RB, Yu X, Dhakal IB, Williams S, Kadlubar SA: Sulfotransferase 1A1 (SULT1A1) gene expression is regulated by members of the NFI transcription factors in human breast cancer cells. *BMC Clin Pathol*. 2014. 14:1. PMID: 24393253. PMC ID:PMC3913331
160. Yeh IJ, Song K, Wittmann BM, Bai X, Danielpour D, Montano MM: HEXIM1 plays a critical role in the inhibition of the androgen receptor by anti-androgens. *Biochem J*. 2014. 462:315-327. PMID: 24844355
161. Yuan B, Cheng L, Chiang HC, Xu X, Han Y, Su H, Wang L, Zhang B, Lin J, Li X, Xie X, Wang T, Tekmal RR, Curiel TJ, Yuan ZM, Elledge R, Hu Y, Ye Q, Li R: A phosphotyrosine switch determines the antitumor activity of ERbeta. *J Clin Invest*. 2014. 124:3378-3390. PMID: 24960160. PMC ID:PMC4109526
162. Zhang P, Wei Y, Wang L, Debeb BG, Yuan Y, Zhang J, Yuan J, Wang M, Chen D, Sun Y, Woodward WA, Liu Y, Dean DC, Liang H, Hu Y, Ang KK, Hung MC, Chen J, Ma L: ATM-mediated stabilization of ZEB1 promotes DNA damage response and radioresistance through CHK1. *Nat Cell Biol*. 2014. 16:864-875. PMID: 25086746. PMC ID:PMC4150825

2013

1. Adams G, Jr., Mehrabi S, Vatcharapijarn Y, Iyamu OI, Akwe JA, Grizzle WE, Yao X, Aikhionbare FO: Frequencies of mtDNA mutations in primary tissues of colorectal adenopolyps. *Front Biosci (Elite Ed)*. 2013. 5:809-813. PMID: 23747897. PMC ID:PMC3739296
2. Ahmed S, Riegsecker S, Beamer M, Rahman A, Bellini JV, Bhansali P, Tillekeratne LM: Largazole, a class I histone deacetylase inhibitor, enhances TNF-alpha-induced ICAM-1 and VCAM-1 expression in rheumatoid arthritis synovial fibroblasts. *Toxicol Appl Pharmacol*. 2013. 270:87-96. PMID: 23632129. PMC ID:PMC3766723
3. Alenghat T, Osborne LC, Saenz SA, Kobuley D, Ziegler CG, Mullican SE, Choi I, Grunberg S, Sinha R, Wynosky-Dolfi M, Snyder A, Giacomini PR, Joyce KL, Hoang TB, Bewtra M, Brodsky IE, Sonnenberg GF, Bushman FD, Won KJ, Lazar MA, Artis D: Histone deacetylase 3 coordinates commensal-bacteria-dependent intestinal homeostasis. *Nature*. 2013. 504:153-157. PMID: 24185009. PMC ID:PMC3949438
4. Al-Greene NT, Means AL, Lu P, Jiang A, Schmidt CR, Chakravarthy AB, Merchant NB, Washington MK, Zhang B, Shyr Y, Deane NG, Beauchamp RD: Four jointed box 1 promotes angiogenesis and is associated with poor patient survival in colorectal carcinoma. *PLoS One*. 2013. 8:e69660. PMID: 23922772. PMC ID:PMC3726759
5. Alimova I, Birks DK, Harris PS, Knipstein JA, Venkataraman S, Marquez VE, Foreman NK, Vibhakar R: Inhibition of EZH2 suppresses self-renewal and induces radiation sensitivity in atypical rhabdoid teratoid tumor cells. *Neuro Oncol*. 2013. 15:149-160. PMID: 23190500. PMC ID:PMC3548579

6. Alvarez BV, Quon AL, Mullen J, Casey JR: Quantification of carbonic anhydrase gene expression in ventricle of hypertrophic and failing human heart. *BMC Cardiovasc Disord.* 2013. 13:2. PMID: 23297731. PMC ID:PMC3570296
7. Amatruda JF, Ross JA, Christensen B, Fustino NJ, Chen KS, Hooten AJ, Nelson H, Kuriger JK, Rakheja D, Frazier AL, Poynter JN: DNA methylation analysis reveals distinct methylation signatures in pediatric germ cell tumors. *BMC Cancer.* 2013. 13:313. PMID: 23806198. PMC ID:PMC3701494
8. Ammirante M, Kuraishy AI, Shalapour S, Strasner A, Ramirez-Sanchez C, Zhang W, Shabaik A, Karin M: An IKKalpha-E2F1-BMI1 cascade activated by infiltrating B cells controls prostate regeneration and tumor recurrence. *Genes Dev.* 2013. 27:1435-1440. PMID: 23796898. PMC ID:PMC3713424
9. Andersen NJ, Nickoloff BJ, Dykema KJ, Boguslawski EA, Krivochenitser RI, Froman RE, Dawes MJ, Baker LH, Thomas DG, Kamstock DA, Kitchell BE, Furge KA, Duesbery NS: Pharmacologic inhibition of MEK signaling prevents growth of canine hemangiosarcoma. *Mol Cancer Ther.* 2013. 12:1701-1714. PMID: 23804705. PMC ID:PMC3769440
10. Arora S, Bhardwaj A, Singh S, Srivastava SK, McClellan S, Nirodi CS, Piazza GA, Grizzle WE, Owen LB, Singh AP: An undesired effect of chemotherapy: gemcitabine promotes pancreatic cancer cell invasiveness through reactive oxygen species-dependent, nuclear factor kappaB- and hypoxia-inducible factor 1alpha-mediated up-regulation of CXCR4. *J Biol Chem.* 2013. 288:21197-21207. PMID: 23740244. PMC ID:PMC3774385
11. Atack JM, Srikhanta YN, Djoko KY, Welch JP, Hasri NH, Steichen CT, Vanden Hoven RN, Grimmond SM, Othman DS, Kappler U, Apicella MA, Jennings MP, Edwards JL, McEwan AG: Characterization of an ntrX mutant of *Neisseria gonorrhoeae* reveals a response regulator that controls expression of respiratory enzymes in oxidase-positive proteobacteria. *J Bacteriol.* 2013. 195:2632-2641. PMID: 23564168. PMC ID:PMC3676050
12. Badve S, Vladislav IT, Spaulding B, Strickland A, Hernandez S, Bird-Turner L, Dodson C, Elleby B, Phillips T: EP1: a novel rabbit monoclonal antibody for detection of oestrogen receptor alpha. *J Clin Pathol.* 2013. 66:1051-1057. PMID: 23894168. PMC ID:PMC3841770
13. Bakhautdin B, Febbraio M, Goksoy E, de la Motte CA, Gulen MF, Childers EP, Hazen SL, Li X, Fox PL: Protective role of macrophage-derived ceruloplasmin in inflammatory bowel disease. *Gut.* 2013. 62:209-219. PMID: 22345661. PMC ID:PMC3595056
14. Bauer EM, Shapiro R, Billiar TR, Bauer PM: High mobility group Box 1 inhibits human pulmonary artery endothelial cell migration via a Toll-like receptor 4- and interferon response factor 3-dependent mechanism(s). *J Biol Chem.* 2013. 288:1365-1373. PMID: 23148224. PMC ID:PMC3543019
15. Bekerman E, Jeon D, Ardolino M, Coscoy L: A role for host activation-induced cytidine deaminase in innate immune defense against KSHV. *PLoS Pathog.* 2013. 9:e1003748. PMID: 24244169. PMC ID:PMC3820765
16. Borges CR, Rehder DS, Boffetta P: Multiplexed surrogate analysis of glycotransferase activity in whole biospecimens. *Anal Chem.* 2013. 85:2927-2936. PMID: 23368525. PMC ID:PMC3650733

17. Bovell LC, Shanmugam C, Putcha BD, Katkoori VR, Zhang B, Bae S, Singh KP, Grizzle WE, Manne U: The prognostic value of microRNAs varies with patient race/ethnicity and stage of colorectal cancer. *Clin Cancer Res.* 2013. 19:3955-3965. PMID: 23719259. PMC ID:PMC3746330
18. Brouxhon SM, Kyrkanides S, Teng X, Raja V, O'Banion MK, Clarke R, Byers S, Silberfeld A, Tornos C, Ma L: Monoclonal antibody against the ectodomain of E-cadherin (DECMA-1) suppresses breast carcinogenesis: involvement of the HER/PI3K/Akt/mTOR and IAP pathways. *Clin Cancer Res.* 2013. 19:3234-3246. PMID: 23620408. PMC ID:PMC4014632
19. Byer SJ, Brossier NM, Peavler LT, Eckert JM, Watkins S, Roth KA, Carroll SL: Malignant peripheral nerve sheath tumor invasion requires aberrantly expressed EGF receptors and is variably enhanced by multiple EGF family ligands. *J Neuropathol Exp Neurol.* 2013. 72:219-233. PMID: 23399900. PMC ID:PMC3579504
20. Cai H, Xu Y: The role of LPA and YAP signaling in long-term migration of human ovarian cancer cells. *Cell Commun Signal.* 2013. 11:31. PMID: 23618389. PMC ID:PMC3655373
21. Chadalapaka G, Jutooru I, Sreevalsan S, Pathi S, Kim K, Chen C, Crose L, Linardic C, Safe S: Inhibition of rhabdomyosarcoma cell and tumor growth by targeting specificity protein (Sp) transcription factors. *Int J Cancer.* 2013. 132:795-806. PMID: 22815231. PMC ID:PMC3527649
22. Chafin D, Theiss A, Roberts E, Borlee G, Otter M, Baird GS: Rapid two-temperature formalin fixation. *PLoS One.* 2013. 8:e54138. PMID: 23349806. PMC ID:PMC3548901
23. Chaudhry AS, Thirumaran RK, Yasuda K, Yang X, Fan Y, Strom SC, Schuetz EG: Genetic variation in aldo-keto reductase 1D1 (AKR1D1) affects the expression and activity of multiple cytochrome P450s. *Drug Metab Dispos.* 2013. 41:1538-1547. PMID: 23704699. PMC ID:PMC4162005
24. Chen CK, Jones CH, Mistriotis P, Yu Y, Ma X, Ravikrishnan A, Jiang M, Andreadis ST, Pfeifer BA, Cheng C: Poly(ethylene glycol)-block-cationic polylactide nanocomplexes of differing charge density for gene delivery. *Biomaterials.* 2013. 34:9688-9699. PMID: 24034497
25. Chen K, Wu D, Zhu X, Ni H, Wei X, Mao N, Xie Y, Niu Y, Li M: Gene expression profile analysis of human intervertebral disc degeneration. *Genet Mol Biol.* 2013. 36:448-454. PMID: 24130454. PMC ID:PMC3795174
26. Chen SJ, Zhang W, Tong Q, Conrad K, Hirschler-Laszkiwicz I, Bayerl M, Kim JK, Cheung JY, Miller BA: Role of TRPM2 in cell proliferation and susceptibility to oxidative stress. *Am J Physiol Cell Physiol.* 2013. 304:C548-560. PMID: 23302782. PMC ID:PMC3671566
27. Chen Y, Chen K, Li M, Li C, Ma H, Bai YS, Zhu XD, Fu Q: Genes associated with disc degeneration identified using microarray gene expression profiling and bioinformatics analysis. *Genet Mol Res.* 2013. 12:1431-1439. PMID: 23661466
28. Chen Y, Song X, Valanejad L, Vasilenko A, More V, Qiu X, Chen W, Lai Y, Slitt A, Stoner M, Yan B, Deng R: Bile salt export pump is dysregulated with altered farnesoid X receptor isoform expression in patients with hepatocellular carcinoma. *Hepatology.* 2013. 57:1530-1541. PMID: 23213087. PMC ID:PMC3608797

29. Chen Z, Saad R, Jia P, Peng D, Zhu S, Washington MK, Zhao Z, Xu Z, El-Rifai W: Gastric adenocarcinoma has a unique microRNA signature not present in esophageal adenocarcinoma. *Cancer*. 2013. 119:1985-1993. PMID: 23456798. PMC ID:PMC3731210
30. Cheung KJ, Gabrielson E, Werb Z, Ewald AJ: Collective invasion in breast cancer requires a conserved basal epithelial program. *Cell*. 2013. 155:1639-1651. PMID: 24332913. PMC ID:PMC3941206
31. Chou J, Fitzgibbon MP, Mortales CL, Towler AM, Upton MP, Yeung RS, McIntosh MW, Warren EH: Phenotypic and transcriptional fidelity of patient-derived colon cancer xenografts in immune-deficient mice. *PLoS One*. 2013. 8:e79874. PMID: 24278200. PMC ID:PMC3835935
32. Cibas ES, Baloch ZW, Fellegara G, LiVolsi VA, Raab SS, Rosai J, Diggans J, Friedman L, Kennedy GC, Kloos RT, Lanman RB, Mandel SJ, Sindy N, Steward DL, Zeiger MA, Haugen BR, Alexander EK: A prospective assessment defining the limitations of thyroid nodule pathologic evaluation. *Ann Intern Med*. 2013. 159:325-332. PMID: 24026318
33. Cleary SP, Jeck WR, Zhao X, Chen K, Selitsky SR, Savich GL, Tan TX, Wu MC, Getz G, Lawrence MS, Parker JS, Li J, Powers S, Kim H, Fischer S, Guindi M, Ghanekar A, Chiang DY: Identification of driver genes in hepatocellular carcinoma by exome sequencing. *Hepatology*. 2013. 58:1693-1702. PMID: 23728943. PMC ID:PMC3830584
34. Cohen-Eliav M, Golan-Gerstl R, Siegfried Z, Andersen CL, Thorsen K, Orntoft TF, Mu D, Karni R: The splicing factor SRSF6 is amplified and is an oncoprotein in lung and colon cancers. *J Pathol*. 2013. 229:630-639. PMID: 23132731
35. Cooks T, Pateras IS, Tarcic O, Solomon H, Schetter AJ, Wilder S, Lozano G, Pikarsky E, Forshew T, Rosenfeld N, Harpaz N, Itzkowitz S, Harris CC, Rotter V, Gorgoulis VG, Oren M: Mutant p53 prolongs NF-kappaB activation and promotes chronic inflammation and inflammation-associated colorectal cancer. *Cancer Cell*. 2013. 23:634-646. PMID: 23680148. PMC ID:PMC3657134
36. Cui B, Zhang S, Chen L, Yu J, Widhopf GF, 2nd, Fecteau JF, Rassenti LZ, Kipps TJ: Targeting ROR1 inhibits epithelial-mesenchymal transition and metastasis. *Cancer Res*. 2013. 73:3649-3660. PMID: 23771907. PMC ID:PMC3832210
37. Dakhllallah D, Batte K, Wang Y, Cantemir-Stone CZ, Yan P, Nuovo G, Mikhail A, Hitchcock CL, Wright VP, Nana-Sinkam SP, Piper MG, Marsh CB: Epigenetic regulation of miR-17~92 contributes to the pathogenesis of pulmonary fibrosis. *Am J Respir Crit Care Med*. 2013. 187:397-405. PMID: 23306545. PMC ID:PMC3603596
38. DeGrande ST, Little SC, Nixon DJ, Wright P, Snyder J, Dun W, Murphy N, Kilic A, Higgins R, Binkley PF, Boyden PA, Carnes CA, Anderson ME, Hund TJ, Mohler PJ: Molecular mechanisms underlying cardiac protein phosphatase 2A regulation in heart. *J Biol Chem*. 2013. 288:1032-1046. PMID: 23204520. PMC ID:PMC3542989
39. Deng ZB, Zhuang X, Ju S, Xiang X, Mu J, Liu Y, Jiang H, Zhang L, Mobley J, McClain C, Feng W, Grizzle W, Yan J, Miller D, Kronenberg M, Zhang HG: Exosome-like nanoparticles from intestinal mucosal cells carry prostaglandin E2 and suppress activation of liver NKT cells. *J Immunol*. 2013. 190:3579-3589. PMID: 23467936. PMC ID:PMC4396634

40. Desnoyers LR, Vasiljeva O, Richardson JH, Yang A, Menendez EE, Liang TW, Wong C, Bessette PH, Kamath K, Moore SJ, Sagert JG, Hostetter DR, Han F, Gee J, Flandez J, Markham K, Nguyen M, Krimm M, Wong KR, Liu S, Daugherty PS, West JW, Lowman HB: Tumor-specific activation of an EGFR-targeting probody enhances therapeutic index. *Sci Transl Med*. 2013. 5:207ra144. PMID: 24132639
41. Dhawan D, Ramos-Vara JA, Naughton JF, Cheng L, Low PS, Rothenbuhler R, Leamon CP, Parker N, Klein PJ, Vlahov IR, Reddy JA, Koch M, Murphy L, Fourez LM, Stewart JC, Knapp DW: Targeting folate receptors to treat invasive urinary bladder cancer. *Cancer Res*. 2013. 73:875-884. PMID: 23204225.
42. Dogan S, Becker JC, Rekhtman N, Tang LH, Nafa K, Ladanyi M, Klimstra DS: Use of touch imprint cytology as a simple method to enrich tumor cells for molecular analysis. *Cancer Cytopathol*. 2013. 121:354-360. PMID: 23576371
43. Duan W, Gao L, Zhao W, Leon M, Sadee W, Webb A, Resnick K, Wu X, Ramaswamy B, Cohn DE, Shapiro C, Andreassen PR, Otterson GA, Villalona-Calero MA: Assessment of FANCD2 nuclear foci formation in paraffin-embedded tumors: a potential patient-enrichment strategy for treatment with DNA interstrand crosslinking agents. *Transl Res*. 2013. 161:156-164. PMID: 23063585. PMC ID:PMC3755957
44. Edavana VK, Dhakal IB, Williams S, Penney R, Boysen G, Yao-Borengasser A, Kadlubar S: Potential role of UGT1A4 promoter SNPs in anastrozole pharmacogenomics. *Drug Metab Dispos*. 2013. 41:870-877. PMID: 23371966. PMC ID:PMC3608453
45. Elgamal OA, Park JK, Gusev Y, Azevedo-Pouly AC, Jiang J, Roopra A, Schmittgen TD: Tumor suppressive function of mir-205 in breast cancer is linked to HMGB3 regulation. *PLoS One*. 2013. 8:e76402. PMID: 24098490. PMC ID:PMC3788717
46. Fam HK, Walton C, Mitra SA, Chowdhury M, Osborne N, Choi K, Sun G, Wong PC, O'Sullivan MJ, Turashvili G, Aparicio S, Triche TJ, Bond M, Pallen CJ, Boerkoel CF: TDP1 and PARP1 deficiency are cytotoxic to rhabdomyosarcoma cells. *Mol Cancer Res*. 2013. 11:1179-1192. PMID: 23913164
47. Fantasia J, Lin CB, Wiwi C, Kaur S, Hu YP, Zhang J, Southall MD: Differential levels of elastin fibers and TGF-beta signaling in the skin of Caucasians and African Americans. *J Dermatol Sci*. 2013. 70:159-165. PMID: 23587732
48. Farrow MA, Chumbler NM, Lapierre LA, Franklin JL, Rutherford SA, Goldenring JR, Lacy DB: Clostridium difficile toxin B-induced necrosis is mediated by the host epithelial cell NADPH oxidase complex. *Proc Natl Acad Sci U S A*. 2013. 110:18674-18679. PMID: 24167244. PMC ID:PMC3831945
49. Fernando J, Faber TW, Pullen NA, Falanga YT, Kolawole EM, Oskeritzian CA, Barnstein BO, Bandara G, Li G, Schwartz LB, Spiegel S, Straus DB, Conrad DH, Bunting KD, Ryan JJ: Genotype-dependent effects of TGF-beta1 on mast cell function: targeting the Stat5 pathway. *J Immunol*. 2013. 191:4505-4513. PMID: 24068671. PMC ID:PMC3846427
50. Fong MY, McDunn J, Kakar SS: Metabolomic profiling of ovarian carcinomas using mass spectrometry. *Methods Mol Biol*. 2013. 1049:239-253. PMID: 23913221

51. Francis JM, Kiezun A, Ramos AH, Serra S, Pedamallu CS, Qian ZR, Banck MS, Kanwar R, Kulkarni AA, Karpathakis A, Manzo V, Contractor T, Philips J, Nickerson E, Pho N, Hooshmand SM, Brais LK, Lawrence MS, Pugh T, McKenna A, Sivachenko A, Cibulskis K, Carter SL, Ojesina AI, Freeman S, Jones RT, Voet D, Saksena G, Auclair D, Onofrio R, Shefler E, Sougnez C, Grimsby J, Green L, Lennon N, Meyer T, Caplin M, Chung DC, Beutler AS, Ogino S, Thirlwell C, Shivdasani R, Asa SL, Harris CR, Getz G, Kulke M, Meyerson M: Somatic mutation of CDKN1B in small intestine neuroendocrine tumors. *Nat Genet.* 2013. 45:1483-1486. PMID: 24185511. PMC ID:PMC4239432
52. Frank R, Sadri N, Bhatti T, Biegel JA, Livolsi VA, Zhang PJ: Proximal-type epithelioid sarcoma of the head and neck (HN): A study with immunohistochemical and molecular analysis of SMARCB1. *J Clin Exp Oncol.* 2013. 2:PMID: 24308011. PMC ID:PMC3846256
53. Fukuoka Y, Hite MR, Dellinger AL, Schwartz LB: Human skin mast cells express complement factors C3 and C5. *J Immunol.* 2013. 191:1827-1834. PMID: 23833239.
54. Gamazon ER, Innocenti F, Wei R, Wang L, Zhang M, Mirkov S, Ramirez J, Huang RS, Cox NJ, Ratain MJ, Liu W: A genome-wide integrative study of microRNAs in human liver. *BMC Genomics.* 2013. 14:395. PMID: 23758991. PMC ID:PMC3710218
55. Gao S, Hsieh CL, Zhou J, Shemshedini L: Zinc Finger 280B regulates sGCalpha1 and p53 in prostate cancer cells. *PLoS One.* 2013. 8:e78766. PMID: 24236047. PMC ID:PMC3827277
56. Gay D, Kwon O, Zhang Z, Spata M, Plikus MV, Holler PD, Ito M, Yang Z, Treffeisen E, Kim CD, Nace A, Zhang X, Baratono S, Wang F, Ornitz DM, Millar SE, Cotsarelis G: Fgf9 from dermal gammadelta T cells induces hair follicle neogenesis after wounding. *Nat Med.* 2013. 19:916-923. PMID: 23727932. PMC ID:PMC4054871
57. Ghosh SK, Pantazopoulos P, Medarova Z, Moore A: Expression of underglycosylated MUC1 antigen in cancerous and adjacent normal breast tissues. *Clin Breast Cancer.* 2013. 13:109-118. PMID: 23122537. PMC ID:PMC3578066
58. Ghosh SK, Uchida M, Yoo B, Ross AW, Gendler SJ, Gong J, Moore A, Medarova Z: Targeted imaging of breast tumor progression and therapeutic response in a human uMUC-1 expressing transgenic mouse model. *Int J Cancer.* 2013. 132:1860-1867. PMID: 23015160. PMC ID:PMC3573250
59. Glymph S, Mandal S, Knowell AE, Abebe F, Chaudhary J: The myxovirus resistance A (MxA) gene -88G>T single nucleotide polymorphism is associated with prostate cancer. *Infect Genet Evol.* 2013. 16:186-190. PMID: 23438650. PMC ID:PMC3669225
60. Godefroy N, Foveau B, Albrecht S, Goodyer CG, LeBlanc AC: Expression and activation of caspase-6 in human fetal and adult tissues. *PLoS One.* 2013. 8:e79313. PMID: 24265764. PMC ID:PMC3827169
61. Gold DV, Gaedcke J, Ghadimi BM, Goggins M, Hruban RH, Liu M, Newsome G, Goldenberg DM: PAM4 enzyme immunoassay alone and in combination with CA 19-9 for the detection of pancreatic adenocarcinoma. *Cancer.* 2013. 119:522-528. PMID: 22898932. PMC ID:PMC3502643

62. Gomez G, Nardone V, Lotfi-Emran S, Zhao W, Schwartz LB: Intracellular adenosine inhibits IgE-dependent degranulation of human skin mast cells. *J Clin Immunol*. 2013. 33:1349-1359. PMID: 24122028. PMC ID:PMC4429864
63. Gong Y, Scott E, Lu R, Xu Y, Oh WK, Yu Q: TIMP-1 promotes accumulation of cancer associated fibroblasts and cancer progression. *PLoS One*. 2013. 8:e77366. PMID: 24143225. PMC ID:PMC3797040
64. Gruber HE, Hoelscher GL, Ingram JA, Norton HJ, Hanley EN, Jr.: Increased IL-17 expression in degenerated human discs and increased production in cultured annulus cells exposed to IL-1ss and TNF-alpha. *Biotech Histochem*. 2013. 88:302-310. PMID: 23627571
65. Gruppenmacher AT, Halpern AL, Bonaldo Mde F, Huang CC, Hamm CA, de Andrade A, Tomita T, Sredni ST: Study of the gene expression and microRNA expression profiles of malignant rhabdoid tumors originated in the brain (AT/RT) and in the kidney (RTK). *Childs Nerv Syst*. 2013. 29:1977-1983. PMID: 23999875
66. Guha P, Kaptan E, Bandyopadhyaya G, Kaczanowska S, Davila E, Thompson K, Martin SS, Kalvakolanu DV, Vasta GR, Ahmed H: Cod glycopeptide with picomolar affinity to galectin-3 suppresses T-cell apoptosis and prostate cancer metastasis. *Proc Natl Acad Sci U S A*. 2013. 110:5052-5057. PMID: 23479624. PMC ID:PMC3612646
67. Guo C, Dugas T, Scates C, Garcia-Villarreal M, Ticich T, McMartin KE: Aluminum citrate blocks toxicity of calcium oxalate crystals by preventing binding with cell membrane phospholipids. *Am J Nephrol*. 2013. 37:41-49. PMID: 23295956
68. Hanna MC, Go C, Roden C, Jones RT, Pochanard P, Javed AY, Javed A, Mondal C, Palescandolo E, Van Hummelen P, Hatton C, Bass AJ, Chun SM, Na DC, Kim TI, Jang SJ, Osarogiagbon RU, Hahn WC, Meyerson M, Garraway LA, MacConaill LE: Colorectal cancers from distinct ancestral populations show variations in BRAF mutation frequency. *PLoS One*. 2013. 8:e74950. PMID: 24066160. PMC ID:PMC3774610
69. Hartman KG, Bortner JD, Falk GW, Yu J, Martin MG, Rustgi AK, Lynch JP: Modeling inflammation and oxidative stress in gastrointestinal disease development using novel organotypic culture systems. *Stem Cell Res Ther*. 2013. 4 Suppl 1:S5. PMID: 24564965. PMC ID:PMC3983655
70. Hartung F, Weber GF: RNA blood levels of osteopontin splice variants are cancer markers. *Springerplus*. 2013. 2:110. PMID: 23543917. PMC ID:PMC3608879
71. Haskins WE, Zablotsky BL, Foret MR, Ihrie RA, Alvarez-Buylla A, Eisenman RN, Berger MS, Lin CH: Molecular Characteristics in MRI-Classified Group 1 Glioblastoma Multiforme. *Front Oncol*. 2013. 3:182. PMID: 23875172. PMC ID:PMC3708153
72. He H, Bronisz A, Liyanarachchi S, Nagy R, Li W, Huang Y, Akagi K, Saji M, Kula D, Wojcicka A, Sebastian N, Wen B, Puch Z, Kalemba M, Stachlewska E, Czetwertynska M, Dlugosinska J, Dymecka K, Ploski R, Krawczyk M, Morrison PJ, Ringel MD, Kloos RT, Jazdzewski K, Symer DE, Vieland VJ, Ostrowski M, Jarzab B, de la Chapelle A: SRGAP1 is a candidate gene for papillary thyroid carcinoma susceptibility. *J Clin Endocrinol Metab*. 2013. 98:E973-980. PMID: 23539728. PMC ID:PMC3644596

73. He H, Li W, Wu D, Nagy R, Liyanarachchi S, Akagi K, Jendrzewski J, Jiao H, Hoag K, Wen B, Srinivas M, Waidyaratne G, Wang R, Wojcicka A, Lattimer IR, Stachlewska E, Czetwertynska M, Dlugosinska J, Gierlikowski W, Ploski R, Krawczyk M, Jazdzewski K, Kere J, Symer DE, Jin V, Wang Q, de la Chapelle A: Ultra-rare mutation in long-range enhancer predisposes to thyroid carcinoma with high penetrance. *PLoS One*. 2013. 8:e61920. PMID: 23690926. PMC ID:PMC3653903
74. Hepworth MR, Monticelli LA, Fung TC, Ziegler CG, Grunberg S, Sinha R, Mantegazza AR, Ma HL, Crawford A, Angelosanto JM, Wherry EJ, Koni PA, Bushman FD, Elson CO, Eberl G, Artis D, Sonnenberg GF: Innate lymphoid cells regulate CD4+ T-cell responses to intestinal commensal bacteria. *Nature*. 2013. 498:113-117. PMID: 23698371. PMC ID:PMC3699860
75. Hess AP, Talbi S, Hamilton AE, Baston-Buest DM, Nyegaard M, Irwin JC, Barragan F, Kruessel JS, Germeyer A, Giudice LC: The human oviduct transcriptome reveals an anti-inflammatory, anti-angiogenic, secretory and matrix-stable environment during embryo transit. *Reprod Biomed Online*. 2013. 27:423-435. PMID: 23953067. PMC ID:PMC3950339
76. Hu X, Zimmerman MA, Bardhan K, Yang D, Waller JL, Liles GB, Lee JR, Pollock R, Lev D, Ware CF, Garber E, Bailly V, Browning JL, Liu K: Lymphotoxin beta receptor mediates caspase-dependent tumor cell apoptosis in vitro and tumor suppression in vivo despite induction of NF-kappaB activation. *Carcinogenesis*. 2013. 34:1105-1114. PMID: 23349015. PMC ID:PMC3643415
77. Hu Y, Lee X, Shao Z, Apicco D, Huang G, Gong BJ, Pepinsky RB, Mi S: A DR6/p75(NTR) complex is responsible for beta-amyloid-induced cortical neuron death. *Cell Death Dis*. 2013. 4:e579. PMID: 23559013. PMC ID:PMC3641333
78. Ishiguro K, Shyam K, Penketh PG, Baumann RP, Sartorelli AC, Rutherford TJ, Ratner ES: Expression of O6-Methylguanine-DNA Methyltransferase Examined by Alkyl-Transfer Assays, Methylation-Specific PCR and Western Blots in Tumors and Matched Normal Tissue. *J Cancer Ther*. 2013. 4:919-931. PMID: 23946891. PMC ID:PMC3740405
79. Jacob AG, O'Brien D, Singh RK, Comiskey DF, Jr., Littleton RM, Mohammad F, Gladman JT, Widmann MC, Jeyaraj SC, Bolinger C, Anderson JR, Barkauskas DA, Boris-Lawrie K, Chandler DS: Stress-induced isoforms of MDM2 and MDM4 correlate with high-grade disease and an altered splicing network in pediatric rhabdomyosarcoma. *Neoplasia*. 2013. 15:1049-1063. PMID: 24027430. PMC ID:PMC3769884
80. Jin L, Wessely O, Marcusson EG, Ivan C, Calin GA, Alahari SK: Prooncogenic factors miR-23b and miR-27b are regulated by Her2/Neu, EGF, and TNF-alpha in breast cancer. *Cancer Res*. 2013. 73:2884-2896. PMID: 23338610. PMC ID:PMC3855090
81. Johnson MD, O'Connell M: Na-K-2Cl cotransporter and aquaporin 1 in arachnoid granulations, meningiomas, and meningiomas invading dura. *Hum Pathol*. 2013. 44:1118-1124. PMID: 23317544
82. Jones BA, Riegsecker S, Rahman A, Beamer M, Aboualawi W, Khuder SA, Ahmed S: Role of ADAM-17, p38 MAPK, cathepsins, and the proteasome pathway in the synthesis and shedding of fractalkine/CX(3) CL1 in rheumatoid arthritis. *Arthritis Rheum*. 2013. 65:2814-2825. PMID: 23897050

83. Kaliberov SA, Kaliberova LN, Hong Lu Z, Preuss MA, Barnes JA, Stockard CR, Grizzle WE, Arbeit JM, Curiel DT: Retargeting of gene expression using endothelium specific hexon modified adenoviral vector. *Virology*. 2013. 447:312-325. PMID: 24210128. PMC ID:PMC3894856
84. Keller J, Nimnual AS, Shroyer KR, Joy C, Ischenko I, Chandler CS, Dong LM, Hayman MJ, Chan EL: Ron tyrosine kinase receptor synergises with EGFR to confer adverse features in head and neck squamous cell carcinoma. *Br J Cancer*. 2013. 109:482-492. PMID: 23799848. PMC ID:PMC3721396
85. Kerr EH, Frederick PJ, Egger ME, Stockard CR, Sellers J, DellaManna D, Oelschlager DK, Amm HM, Eltoum IE, Straughn JM, Buchsbaum DJ, Grizzle WE, McNally LR: Lung resistance-related protein (LRP) expression in malignant ascitic cells as a prognostic marker for advanced ovarian serous carcinoma. *Ann Surg Oncol*. 2013. 20:3059-3065. PMID: 23525731
86. Kikuchi K, Soundararajan A, Zarzabal LA, Weems CR, Nelon LD, Hampton ST, Michalek JE, Rubin BP, Fields AP, Keller C: Protein kinase C iota as a therapeutic target in alveolar rhabdomyosarcoma. *Oncogene*. 2013. 32:286-295. PMID: 22349825. PMC ID:PMC3360112
87. Killeen ME, Ferris L, Kupetsky EA, Falo L, Jr., Mathers AR: Signaling through purinergic receptors for ATP induces human cutaneous innate and adaptive Th17 responses: implications in the pathogenesis of psoriasis. *J Immunol*. 2013. 190:4324-4336. PMID: 23479230. PMC ID:PMC3622186
88. Knox SM, Lombaert IM, Haddox CL, Abrams SR, Cotrim A, Wilson AJ, Hoffman MP: Parasympathetic stimulation improves epithelial organ regeneration. *Nat Commun*. 2013. 4:1494. PMID: 23422662. PMC ID:PMC3582394
89. Knutson CG, Mangerich A, Zeng Y, Raczynski AR, Liberman RG, Kang P, Ye W, Prestwich EG, Lu K, Wishnok JS, Korzenik JR, Wogan GN, Fox JG, Dedon PC, Tannenbaum SR: Chemical and cytokine features of innate immunity characterize serum and tissue profiles in inflammatory bowel disease. *Proc Natl Acad Sci U S A*. 2013. 110:E2332-2341. PMID: 23754421. PMC ID:PMC3696795
90. Kokkat TJ, McGarvey D, Patel MS, Tieniber AD, Livolsi VA, Baloch ZW: Protein extraction from methanol fixed paraffin embedded tissue blocks: A new possibility using cell blocks. *Cytojournal*. 2013. 10:23. PMID: 24403950. PMC ID:PMC3869970
91. Kostic AD, Chun E, Robertson L, Glickman JN, Gallini CA, Michaud M, Clancy TE, Chung DC, Lochhead P, Hold GL, El-Omar EM, Brenner D, Fuchs CS, Meyerson M, Garrett WS: *Fusobacterium nucleatum* potentiates intestinal tumorigenesis and modulates the tumor-immune microenvironment. *Cell Host Microbe*. 2013. 14:207-215. PMID: 23954159. PMC ID:PMC3772512
92. Kumagai H, Pham W, Kataoka M, Hiwatari K, McBride J, Wilson KJ, Tachikawa H, Kimura R, Nakamura K, Liu EH, Gore JC, Sakuma S: Multifunctional nanobeacon for imaging Thomsen-Friedenreich antigen-associated colorectal cancer. *Int J Cancer*. 2013. 132:2107-2117. PMID: 23055136. PMC ID:PMC3566327
93. Landry GM, Dunning CL, Conrad T, Hitt MJ, McMartin KE: Diglycolic acid inhibits succinate dehydrogenase activity in human proximal tubule cells leading to mitochondrial dysfunction and cell death. *Toxicol Lett*. 2013. 221:176-184. PMID: 23827505

94. Lao VV, Welcsh P, Luo Y, Carter KT, Dzieciatkowski S, Dintzis S, Meza J, Sarvetnick NE, Monnat RJ, Jr., Loeb LA, Grady WM: Altered RECQ helicase expression in sporadic primary colorectal cancers. *Transl Oncol.* 2013. 6:458-469. PMID: 23908689. PMC ID:PMC3730021
95. Li H, Rodriguez-Canales J, Liu W, Zhu J, Hanson JC, Pack S, Zhuang Z, Emmert-Buck MR, Rodgers GP: Deletion of the olfactomedin 4 gene is associated with progression of human prostate cancer. *Am J Pathol.* 2013. 183:1329-1338. PMID: 24070418. PMC ID:PMC3791688
96. Liou P, Bader L, Wang A, Yamashiro D, Kandel JJ: Correlation of tumor-associated macrophages and clinicopathological factors in Wilms tumor. *Vasc Cell.* 2013. 5:5. PMID: 23514200. PMC ID:PMC3610208
97. Liu CH, Zhou Y, Sun Y, Li JY, Zhou LX, Boydston-White S, Masilamani V, Zhu K, Pu Y, Alfano RR: Resonance Raman and Raman spectroscopy for breast cancer detection. *Technol Cancer Res Treat.* 2013. 12:371-382. PMID: 23448574
98. Liu L, Chu KK, Houser GH, Diephuis BJ, Li Y, Wilsterman EJ, Shastry S, Dierksen G, Birket SE, Mazur M, Byan-Parker S, Grizzle WE, Sorscher EJ, Rowe SM, Tearney GJ: Method for quantitative study of airway functional microanatomy using micro-optical coherence tomography. *PLoS One.* 2013. 8:e54473. PMID: 23372732. PMC ID:PMC3553101
99. Lopez-Diaz FJ, Gascard P, Balakrishnan SK, Zhao J, Del Rincon SV, Spruck C, Tlsty TD, Emerson BM: Coordinate transcriptional and translational repression of p53 by TGF-beta1 impairs the stress response. *Mol Cell.* 2013. 50:552-564. PMID: 23706820. PMC ID:PMC3735454
100. Luger D, Yang YA, Raviv A, Weinberg D, Banerjee S, Lee MJ, Trepel J, Yang L, Wakefield LM: Expression of the B-cell receptor component CD79a on immature myeloid cells contributes to their tumor promoting effects. *PLoS One.* 2013. 8:e76115. PMID: 24146823. PMC ID:PMC3797715
101. Lum E, Vigliotti M, Banerjee N, Cutter N, Wrzeszczynski KO, Khan S, Kamalakaran S, Levine DA, Dimitrova N, Lucito R: Loss of DOK2 induces carboplatin resistance in ovarian cancer via suppression of apoptosis. *Gynecol Oncol.* 2013. 130:369-376. PMID: 23684582
102. Luo Y, Kaz AM, Kannurn S, Welsch P, Morris SM, Wang J, Lutterbaugh JD, Markowitz SD, Grady WM: NTRK3 is a potential tumor suppressor gene commonly inactivated by epigenetic mechanisms in colorectal cancer. *PLoS Genet.* 2013. 9:e1003552. PMID: 23874207. PMC ID:PMC3708790
103. Luo Y, Tsuchiya KD, Il Park D, Fausel R, Kannurn S, Welcsh P, Dzieciatkowski S, Wang J, Grady WM: RET is a potential tumor suppressor gene in colorectal cancer. *Oncogene.* 2013. 32:2037-2047. PMID: 22751117. PMC ID:PMC3465636
104. Madhunapantula SV, Sharma A, Gowda R, Robertson GP: Identification of glycogen synthase kinase 3alpha as a therapeutic target in melanoma. *Pigment Cell Melanoma Res.* 2013. 26:886-899. PMID: 24034838. PMC ID:PMC4010947

105. Masilamani V, Alsalhi MS, Devanesan S, Atif M, Rabah D, Farhat K, Pu Y, Alfano RR: A parallelism between spectral grading and Gleason grading of malignant prostate tissues. *Photodiagnosis Photodyn Ther.* 2013. 10:168-172. PMID: 23769283
106. Masilamani V, Das BB, Secor J, AlSalhi M, Devanesan S, Prasad S, Rabah D, Alfano RR: Optical biopsy of benign and malignant tissue by time resolved spectroscopy. *Technol Cancer Res Treat.* 2013. 12:559-563. PMID: 23745786
107. McKinley ET, Ayers GD, Smith RA, Saleh SA, Zhao P, Washington MK, Coffey RJ, Manning HC: Limits of [18F]-FLT PET as a biomarker of proliferation in oncology. *PLoS One.* 2013. 8:e58938. PMID: 23554961. PMC ID:PMC3598948
108. Meng W, McElroy JP, Volinia S, Palatini J, Warner S, Ayers LW, Palanichamy K, Chakravarti A, Lautenschlaeger T: Comparison of microRNA deep sequencing of matched formalin-fixed paraffin-embedded and fresh frozen cancer tissues. *PLoS One.* 2013. 8:e64393. PMID: 23696889. PMC ID:PMC3655971
109. Meng W, Ye Z, Cui R, Perry J, Dedousi-Huebner V, Huebner A, Wang Y, Li B, Volinia S, Nakanishi H, Kim T, Suh SS, Ayers LW, Ross P, Croce CM, Chakravarti A, Jin VX, Lautenschlaeger T: MicroRNA-31 predicts the presence of lymph node metastases and survival in patients with lung adenocarcinoma. *Clin Cancer Res.* 2013. 19:5423-5433. PMID: 23946296. PMC ID:PMC3823052
110. Moga KA, Bickford LR, Geil RD, Dunn SS, Pandya AA, Wang Y, Fain JH, Archuleta CF, O'Neill AT, Desimone JM: Rapidly-dissolvable microneedle patches via a highly scalable and reproducible soft lithography approach. *Adv Mater.* 2013. 25:5060-5066. PMID: 23893866. PMC ID:PMC4262250
111. Mungamuri SK, Murk W, Grumolato L, Bernstein E, Aaronson SA: Chromatin modifications sequentially enhance ErbB2 expression in ErbB2-positive breast cancers. *Cell Rep.* 2013. 5:302-313. PMID: 24120871. PMC ID:PMC3905738
112. Nelius T, Samathanam C, Martinez-Marin D, Gaines N, Stevens J, Hickson J, de Riese W, Filleur S: Positive correlation between PEDF expression levels and macrophage density in the human prostate. *Prostate.* 2013. 73:549-561. PMID: 23038613. PMC ID:PMC3600115
113. Nemlich Y, Greenberg E, Ortenberg R, Besser MJ, Barshack I, Jacob-Hirsch J, Jacoby E, Eyal E, Rivkin L, Prieto VG, Chakravarti N, Duncan LM, Kallenberg DM, Galun E, Bennett DC, Amariglio N, Bar-Eli M, Schachter J, Rechavi G, Markel G: MicroRNA-mediated loss of ADAR1 in metastatic melanoma promotes tumor growth. *J Clin Invest.* 2013. 123:2703-2718. PMID: 23728176. PMC ID:PMC3668823
114. Nguyen TD, Markova S, Liu W, Gow JM, Baldwin RM, Habashian M, Relling MV, Ratain MJ, Kroetz DL: Functional characterization of ABCC2 promoter polymorphisms and allele-specific expression. *Pharmacogenomics J.* 2013. 13:396-402. PMID: 22664480. PMC ID:PMC3435480
115. Nguyen TL, Grizzle WE, Zhang K, Hameed O, Siegal GP, Wei S: Syndecan-1 overexpression is associated with nonluminal subtypes and poor prognosis in advanced breast cancer. *Am J Clin Pathol.* 2013. 140:468-474. PMID: 24045542.

116. Noah TK, Lo YH, Price A, Chen G, King E, Washington MK, Aronow BJ, Shroyer NF: SPDEF functions as a colorectal tumor suppressor by inhibiting beta-catenin activity. *Gastroenterology*. 2013. 144:1012-1023 e1016. PMID: 23376423. PMC ID:PMC3738069
117. Nolen BM, Orlichenko LS, Marrangoni A, Velikokhatnaya L, Prosser D, Grizzle WE, Ho K, Jenkins FJ, Bovbjerg DH, Lokshin AE: An extensive targeted proteomic analysis of disease-related protein biomarkers in urine from healthy donors. *PLoS One*. 2013. 8:e63368. PMID: 23723977. PMC ID:PMC3665773
118. O'Brien VP, Bokelmann K, Ramirez J, Jobst K, Ratain MJ, Brockmoller J, Tzvetkov MV: Hepatocyte nuclear factor 1 regulates the expression of the organic cation transporter 1 via binding to an evolutionary conserved region in intron 1 of the OCT1 gene. *J Pharmacol Exp Ther*. 2013. 347:181-192. PMID: 23922447. PMC ID:PMC3781413
119. Ooi A, Dykema K, Ansari A, Petillo D, Snider J, Kahnoski R, Anema J, Craig D, Carpten J, Teh BT, Furge KA: CUL3 and NRF2 mutations confer an NRF2 activation phenotype in a sporadic form of papillary renal cell carcinoma. *Cancer Res*. 2013. 73:2044-2051. PMID: 23365135.
120. Otali D, He Q, Grizzle WE: The effect of antigen retrieval on cells fixed in 10% neutral buffered formalin followed by transfer to 70% ethanol. *PLoS One*. 2013. 8:e82405. PMID: 24358179. PMC ID:PMC3866107
121. Otali D, He Q, Stockard CR, Grizzle WE: Preservation of immunorecognition by transferring cells from 10% neutral buffered formalin to 70% ethanol. *Biotech Histochem*. 2013. 88:170-180. PMID: 23343125. PMC ID:PMC3737737
122. Palantavida S, Guz NV, Woodworth CD, Sokolov I: Ultrabright fluorescent mesoporous silica nanoparticles for prescreening of cervical cancer. *Nanomedicine*. 2013. 9:1255-1262. PMID: 23665420. PMC ID:PMC3815984
123. Pan Z, Grizzle W, Hameed O: Significant variation of immunohistochemical marker expression in paired primary and metastatic clear cell renal cell carcinomas. *Am J Clin Pathol*. 2013. 140:410-418. PMID: 23955461
124. Pascal J, Bearer EL, Wang Z, Koay EJ, Curley SA, Cristini V: Mechanistic patient-specific predictive correlation of tumor drug response with microenvironment and perfusion measurements. *Proc Natl Acad Sci U S A*. 2013. 110:14266-14271. PMID: 23940372. PMC ID:PMC3761643
125. Patel SP, Bristol A, Saric O, Wang XP, Dubeykovskiy A, Arlen PM, Morse MA: Anti-tumor activity of a novel monoclonal antibody, NPC-1C, optimized for recognition of tumor antigen MUC5AC variant in preclinical models. *Cancer Immunol Immunother*. 2013. 62:1011-1019. PMID: 23591984
126. Peng M, Yang Z, Zhang H, Jaafar L, Wang G, Liu M, Flores-Rozas H, Xu J, Mivechi NF, Ko L: GT198 Splice Variants Display Dominant-Negative Activities and Are Induced by Inactivating Mutations. *Genes Cancer*. 2013. 4:26-38. PMID: 23946869. PMC ID:PMC3743156
127. Penney RB, Lundgreen A, Yao-Borengasser A, Koroth-Edavana V, Williams S, Wolff R, Slattery ML, Kadlubar S: Lack of correlation between in silico projection of function and quantitative real-

time PCR-determined gene expression levels in colon tissue. *Pharmgenomics Pers Med*. 2013. 6:99-103. PMID: 24101876. PMC ID:PMC3791675

128. Pervin S, Hewison M, Braga M, Tran L, Chun R, Karam A, Chaudhuri G, Norris K, Singh R: Down-regulation of vitamin D receptor in mammospheres: implications for vitamin D resistance in breast cancer and potential for combination therapy. *PLoS One*. 2013. 8:e53287. PMID: 23341935. PMC ID:PMC3544824
129. Pervin S, Tran L, Urman R, Braga M, Parveen M, Li SA, Chaudhuri G, Singh R: Oxidative stress specifically downregulates survivin to promote breast tumour formation. *Br J Cancer*. 2013. 108:848-858. PMID: 23403820. PMC ID:PMC3590675
130. Plantinga MJ, Pascarelli KM, Merkel AS, Lazar AJ, von Mehren M, Lev D, Broccoli D: Telomerase suppresses formation of ALT-associated single-stranded telomeric C-circles. *Mol Cancer Res*. 2013. 11:557-567. PMID: 23505069
131. Pu Y, Wang W, Yang Y, Alfano RR: Stokes shift spectroscopic analysis of multifluorophores for human cancer detection in breast and prostate tissues. *J Biomed Opt*. 2013. 18:17005. PMID: 23296086
132. Pu Y, Wang W, Yang Y, Alfano RR: Native fluorescence spectra of human cancerous and normal breast tissues analyzed with non-negative constraint methods. *Appl Opt*. 2013. 52:1293-1301. PMID: 23435002
133. Qu Z, Miao W, Zhang Q, Wang Z, Fu C, Han J, Liu Y: Analysis of crucial molecules involved in herniated discs and degenerative disc disease. *Clinics (Sao Paulo)*. 2013. 68:225-230. PMID: 23525320. PMC ID:PMC3584278
134. Rajaram M, Zhang J, Wang T, Li J, Kuscu C, Qi H, Kato M, Grubor V, Weil RJ, Helland A, Borrenson-Dale AL, Cho KR, Levine DA, Houghton AN, Wolchok JD, Myeroff L, Markowitz SD, Lowe SW, Zhang M, Krasnitz A, Lucito R, Mu D, Powers RS: Two distinct categories of focal deletions in cancer genomes. *PLoS One*. 2013. 8:e66264. PMID: 23805207. PMC ID:PMC3689739
135. Revill K, Wang T, Lachenmayer A, Kojima K, Harrington A, Li J, Hoshida Y, Llovet JM, Powers S: Genome-wide methylation analysis and epigenetic unmasking identify tumor suppressor genes in hepatocellular carcinoma. *Gastroenterology*. 2013. 145:1424-1435 e1421-1425. PMID: 24012984. PMC ID:PMC3892430
136. Rider L, Oladimeji P, Diakonova M: PAK1 regulates breast cancer cell invasion through secretion of matrix metalloproteinases in response to prolactin and three-dimensional collagen IV. *Mol Endocrinol*. 2013. 27:1048-1064. PMID: 23744893. PMC ID:PMC3706840
137. Ritchie SA, Akita H, Takemasa I, Eguchi H, Pastural E, Nagano H, Monden M, Doki Y, Mori M, Jin W, Sajobi TT, Jayasinghe D, Chitou B, Yamazaki Y, White T, Goodenowe DB: Metabolic system alterations in pancreatic cancer patient serum: potential for early detection. *BMC Cancer*. 2013. 13:416. PMID: 24024929. PMC ID:PMC3847543
138. Robinson KG, Mendonca JL, Militar JL, Theroux MC, Dabney KW, Shah SA, Miller F, Akins RE: Disruption of basal lamina components in neuromotor synapses of children with spastic

quadriplegic cerebral palsy. *PLoS One*. 2013. 8:e70288. PMID: 23976945. PMC ID:PMC3745387

139. Rogers HA, Mayne C, Chapman RJ, Kilday JP, Coyle B, Grundy RG: PI3K pathway activation provides a novel therapeutic target for pediatric ependymoma and is an independent marker of progression-free survival. *Clin Cancer Res*. 2013. 19:6450-6460. PMID: 24077346
140. Rogers HA, Ward JH, Miller S, Lowe J, Coyle B, Grundy RG: The role of the WNT/beta-catenin pathway in central nervous system primitive neuroectodermal tumours (CNS PNETs). *Br J Cancer*. 2013. 108:2130-2141. PMID: 23591193. PMC ID:PMC3670474
141. Routh JC, Grundy PE, Anderson JR, Retik AB, Kurek KC: B7-h1 as a biomarker for therapy failure in patients with favorable histology Wilms tumor. *J Urol*. 2013. 189:1487-1492. PMID: 23154206
142. Roy S, Gascard P, Dumont N, Zhao J, Pan D, Petrie S, Margeta M, Tlsty TD: Rare somatic cells from human breast tissue exhibit extensive lineage plasticity. *Proc Natl Acad Sci U S A*. 2013. 110:4598-4603. PMID: 23487770. PMC ID:PMC3607035
143. Rudzinski ER, Teot LA, Anderson JR, Moore J, Bridge JA, Barr FG, Gastier-Foster JM, Skapek SX, Hawkins DS, Parham DM: Dense pattern of embryonal rhabdomyosarcoma, a lesion easily confused with alveolar rhabdomyosarcoma: a report from the Soft Tissue Sarcoma Committee of the Children's Oncology Group. *Am J Clin Pathol*. 2013. 140:82-90. PMID: 23765537. PMC ID:PMC4624292
144. Saad R, Chen Z, Zhu S, Jia P, Zhao Z, Washington MK, Belkhiri A, El-Rifai W: Deciphering the unique microRNA signature in human esophageal adenocarcinoma. *PLoS One*. 2013. 8:e64463. PMID: 23724052. PMC ID:PMC3665888
145. Samulski TD, Bai S, LiVolsi VA, Montone K, Baloch Z: Malignant potential of small oncocytic follicular carcinoma/Hurthle cell carcinoma: an institutional experience. *Histopathology*. 2013. 63:568-573. PMID: 23952654
146. Sanchez-Vega F, Gotea V, Petrykowska HM, Margolin G, Krivak TC, DeLoia JA, Bell DW, Elnitski L: Recurrent patterns of DNA methylation in the ZNF154, CASP8, and VHL promoters across a wide spectrum of human solid epithelial tumors and cancer cell lines. *Epigenetics*. 2013. 8:1355-1372. PMID: 24149212. PMC ID:PMC3933495
147. Sanford JC, Guo Y, Sadee W, Wang D: Regulatory polymorphisms in CYP2C19 affecting hepatic expression. *Drug Metabol Drug Interact*. 2013. 28:23-30. PMID: 23412869. PMC ID:PMC3755489
148. Sausen M, Leary RJ, Jones S, Wu J, Reynolds CP, Liu X, Blackford A, Parmigiani G, Diaz LA, Jr., Papadopoulos N, Vogelstein B, Kinzler KW, Velculescu VE, Hogarty MD: Integrated genomic analyses identify ARID1A and ARID1B alterations in the childhood cancer neuroblastoma. *Nat Genet*. 2013. 45:12-17. PMID: 23202128. PMC ID:PMC3557959
149. Schneider BG, Piazuolo MB, Sicinschi LA, Mera R, Peng DF, Roa JC, Romero-Gallo J, Delgado AG, de Sablet T, Bravo LE, Wilson KT, El-Rifai W, Peek RM, Jr., Correa P: Virulence of infecting *Helicobacter pylori* strains and intensity of mononuclear cell infiltration are associated

with levels of DNA hypermethylation in gastric mucosae. *Epigenetics*. 2013. 8:1153-1161. PMID: 24128875. PMC ID:PMC3927747

150. Seeley EH, Washington MK, Caprioli RM, M'Koma AE: Proteomic patterns of colonic mucosal tissues delineate Crohn's colitis and ulcerative colitis. *Proteomics Clin Appl*. 2013. 7:541-549. PMID: 23382084. PMC ID:PMC3737405
151. Sharma A, Madhunapantula SV, Gowda R, Berg A, Neves RI, Robertson GP: Identification of aurora kinase B and Wee1-like protein kinase as downstream targets of (V600E)B-RAF in melanoma. *Am J Pathol*. 2013. 182:1151-1162. PMID: 23416158. PMC ID:PMC3620396
152. Shukla S, Sharma H, Abbas A, MacLennan GT, Fu P, Danielpour D, Gupta S: Upregulation of SATB1 is associated with prostate cancer aggressiveness and disease progression. *PLoS One*. 2013. 8:e53527. PMID: 23308245. PMC ID:PMC3538595
153. Siddique HR, Parray A, Tarapore RS, Wang L, Mukhtar H, Karnes RJ, Deng Y, Konety BR, Saleem M: BMI1 polycomb group protein acts as a master switch for growth and death of tumor cells: regulates TCF4-transcriptional factor-induced BCL2 signaling. *PLoS One*. 2013. 8:e60664. PMID: 23671559. PMC ID:PMC3645992
154. Siddique HR, Parray A, Zhong W, Karnes RJ, Bergstralh EJ, Koochekpour S, Rhim JS, Konety BR, Saleem M: BMI1, stem cell factor acting as novel serum-biomarker for Caucasian and African-American prostate cancer. *PLoS One*. 2013. 8:e52993. PMID: 23308129. PMC ID:PMC3538726
155. Singh R, Avliyakov NK, Braga M, Haykinson MJ, Martinez L, Singh V, Parveen M, Chaudhuri G, Pervin S: Proteomic identification of mitochondrial targets of arginase in human breast cancer. *PLoS One*. 2013. 8:e79242. PMID: 24223914. PMC ID:PMC3818427
156. Siracusa MC, Saenz SA, Wojno ED, Kim BS, Osborne LC, Ziegler CG, Benitez AJ, Ruymann KR, Farber DL, Sleiman PM, Hakonarson H, Cianferoni A, Wang ML, Spergel JM, Comeau MR, Artis D: Thymic stromal lymphopoietin-mediated extramedullary hematopoiesis promotes allergic inflammation. *Immunity*. 2013. 39:1158-1170. PMID: 24332033. PMC ID:PMC3959827
157. Skapek SX, Anderson J, Barr FG, Bridge JA, Gastier-Foster JM, Parham DM, Rudzinski ER, Triche T, Hawkins DS: PAX-FOXO1 fusion status drives unfavorable outcome for children with rhabdomyosarcoma: a children's oncology group report. *Pediatr Blood Cancer*. 2013. 60:1411-1417. PMID: 23526739. PMC ID:PMC4646073
158. Sokolov I, Dokukin ME, Guz NV: Method for quantitative measurements of the elastic modulus of biological cells in AFM indentation experiments. *Methods*. 2013. 60:202-213. PMID: 23639869
159. Song X, Chen Y, Valanejad L, Kaimal R, Yan B, Stoner M, Deng R: Mechanistic insights into isoform-dependent and species-specific regulation of bile salt export pump by farnesoid X receptor. *J Lipid Res*. 2013. 54:3030-3044. PMID: 24002920. PMC ID:PMC3793607
160. Sordillo LA, Pu Y, Sordillo PP, Budansky Y, Alfano RR: Optical spectral fingerprints of tissues from patients with different breast cancer histologies using a novel fluorescence spectroscopic device. *Technol Cancer Res Treat*. 2013. 12:455-461. PMID: 23547972

161. Spencer JD, Schwaderer AL, Wang H, Bartz J, Kline J, Eichler T, DeSouza KR, Sims-Lucas S, Baker P, Hains DS: Ribonuclease 7, an antimicrobial peptide upregulated during infection, contributes to microbial defense of the human urinary tract. *Kidney Int.* 2013. 83:615-625. PMID: 23302724. PMC ID:PMC3612368
162. Starlard-Davenport A, Kutanzi K, Tryndyak V, Word B, Lyn-Cook B: Restoration of the methylation status of hypermethylated gene promoters by microRNA-29b in human breast cancer: A novel epigenetic therapeutic approach. *J Carcinog.* 2013. 12:15. PMID: 23961262. PMC ID:PMC3746452
163. Suchy SL, Landreneau RJ, Schuchert MJ, Wang D, Ervin PR, Jr., Brower SL: Adaptation of a chemosensitivity assay to accurately assess pemetrexed in ex vivo cultures of lung cancer. *Cancer Biol Ther.* 2013. 14:39-44. PMID: 23114649. PMC ID:PMC3566050
164. Sukanuma R, Wang LL, Sano H, Naranjo A, London WB, Seeger RC, Hogarty MD, Gastier-Foster JM, Look AT, Park JR, Maris JM, Cohn SL, Amann G, Beiske K, Cullinane CJ, d'Amore ES, Gambini C, Jarzembowski JA, Joshi VV, Navarro S, Peuchmaur M, Shimada H: Peripheral neuroblastic tumors with genotype-phenotype discordance: a report from the Children's Oncology Group and the International Neuroblastoma Pathology Committee. *Pediatr Blood Cancer.* 2013. 60:363-370. PMID: 22744966. PMC ID:PMC3397468
165. Sun H, Jiang L, Luo X, Jin W, He Q, An J, Lui K, Shi J, Rong R, Su W, Lucchesi C, Liu Y, Sheikh MS, Huang Y: Potential tumor-suppressive role of monoglyceride lipase in human colorectal cancer. *Oncogene.* 2013. 32:234-241. PMID: 22349814. PMC ID:PMC3901401
166. Tegla CA, Cudrici CD, Azimzadeh P, Singh AK, Trippe R, 3rd, Khan A, Chen H, Andrian-Albescu M, Royal W, 3rd, Bever C, Rus V, Rus H: Dual role of response gene to complement-32 in multiple sclerosis. *Exp Mol Pathol.* 2013. 94:17-28. PMID: 23000427.
167. Thiagarajan PS, Yakubenko VP, ElSORI DH, Yadav SP, Willard B, Tan CD, Rodriguez ER, Febbraio M, Cathcart MK: Vimentin is an endogenous ligand for the pattern recognition receptor Dectin-1. *Cardiovasc Res.* 2013. 99:494-504. PMID: 23674515. PMC ID:PMC3718321
168. Tran E, Chinnasamy D, Yu Z, Morgan RA, Lee CC, Restifo NP, Rosenberg SA: Immune targeting of fibroblast activation protein triggers recognition of multipotent bone marrow stromal cells and cachexia. *J Exp Med.* 2013. 210:1125-1135. PMID: 23712432. PMC ID:PMC3674706
169. Vansaun MN, Mendonsa AM, Lee Gordon D: Hepatocellular proliferation correlates with inflammatory cell and cytokine changes in a murine model of nonalcoholic fatty liver disease. *PLoS One.* 2013. 8:e73054. PMID: 24039859. PMC ID:PMC3767686
170. Wang LS, Kuo CT, Huang TH, Yearsley M, Oshima K, Stoner GD, Yu J, Lechner JF, Huang YW: Black raspberries protectively regulate methylation of Wnt pathway genes in precancerous colon tissue. *Cancer Prev Res (Phila).* 2013. 6:1317-1327. PMID: 24129635. PMC ID:PMC3902171
171. Wang LZ, Ramirez J, Yeo W, Chan MY, Thuya WL, Lau JY, Wan SC, Wong AL, Zee YK, Lim R, Lee SC, Ho PC, Lee HS, Chan A, Ansher S, Ratain MJ, Goh BC: Glucuronidation by UGT1A1 is the dominant pathway of the metabolic disposition of belinostat in liver cancer patients. *PLoS One.* 2013. 8:e54522. PMID: 23382909. PMC ID:PMC3559838

172. Wang Y, He X, Yu Q, Eng C: Androgen receptor-induced tumor suppressor, KLLN, inhibits breast cancer growth and transcriptionally activates p53/p73-mediated apoptosis in breast carcinomas. *Hum Mol Genet.* 2013. 22:2263-2272. PMID: 23418309
173. Webb A, Papp AC, Sanford JC, Huang K, Parvin JD, Sadee W: Expression of mRNA transcripts encoding membrane transporters detected with whole transcriptome sequencing of human brain and liver. *Pharmacogenet Genomics.* 2013. 23:269-278. PMID: 23492907. PMC ID:PMC4132188
174. Whittier KL, Boese EA, Gibson-Corley KN, Kirby PA, Darbro BW, Qian Q, Ingram WJ, Robertson T, Remke M, Taylor MD, O'Dorisio MS: G-protein coupled receptor expression patterns delineate medulloblastoma subgroups. *Acta Neuropathol Commun.* 2013. 1:66. PMID: 24252460. PMC ID:PMC3893540
175. Wrzeszczynski KO, Varadan V, Kamalakaran S, Levine DA, Dimitrova N, Lucito R: Integrative prediction of gene function and platinum-free survival from genomic and epigenetic features in ovarian cancer. *Methods Mol Biol.* 2013. 1049:35-51. PMID: 23913207
176. Wu Y, Crawford M, Mao Y, Lee RJ, Davis IC, Elton TS, Lee LJ, Nana-Sinkam SP: Therapeutic Delivery of MicroRNA-29b by Cationic Lipoplexes for Lung Cancer. *Mol Ther Nucleic Acids.* 2013. 2:e84. PMID: 23591808. PMC ID:PMC3650246
177. Xiang Y, Qiu Q, Jiang M, Jin R, Lehmann BD, Strand DW, Jovanovic B, DeGraff DJ, Zheng Y, Yousif DA, Simmons CQ, Case TC, Yi J, Cates JM, Virostko J, He X, Jin X, Hayward SW, Matusik RJ, George AL, Jr., Yi Y: SPARCL1 suppresses metastasis in prostate cancer. *Mol Oncol.* 2013. 7:1019-1030. PMID: 23916135. PMC ID:PMC3838491
178. Xing F, Kobayashi A, Okuda H, Watabe M, Pai SK, Pandey PR, Hirota S, Wilber A, Mo YY, Moore BE, Liu W, Fukuda K, Iizumi M, Sharma S, Liu Y, Wu K, Peralta E, Watabe K: Reactive astrocytes promote the metastatic growth of breast cancer stem-like cells by activating Notch signalling in brain. *EMBO Mol Med.* 2013. 5:384-396. PMID: 23495140. PMC ID:PMC3598079
179. Yanagisawa K, Yue S, van der Vliet HJ, Wang R, Alatrakchi N, Golden-Mason L, Schuppan D, Koziel MJ, Rosen HR, Exley MA: Ex vivo analysis of resident hepatic pro-inflammatory CD1d-reactive T cells and hepatocyte surface CD1d expression in hepatitis C. *J Viral Hepat.* 2013. 20:556-565. PMID: 23808994. PMC ID:PMC4054599
180. Yang MY, Hilton MB, Seaman S, Haines DC, Nagashima K, Burks CM, Tessarollo L, Ivanova PT, Brown HA, Umstead TM, Floros J, Chronos ZC, St Croix B: Essential regulation of lung surfactant homeostasis by the orphan G protein-coupled receptor GPR116. *Cell Rep.* 2013. 3:1457-1464. PMID: 23684610. PMC ID:PMC3695742
181. Yu HJ, Serebryanny LA, Fry M, Greene M, Chernaya O, Hu WY, Chew TL, Mahmud N, Kadkol SS, Glover S, Prins G, Strakova Z, de Lanerolle P: Tumor stiffness is unrelated to myosin light chain phosphorylation in cancer cells. *PLoS One.* 2013. 8:e79776. PMID: 24224004. PMC ID:PMC3817105
182. Zage PE, Sirisaengtaksin N, Liu Y, Gireud M, Brown BS, Palla S, Richards KN, Hughes DP, Bean AJ: UBE4B levels are correlated with clinical outcomes in neuroblastoma patients and with altered neuroblastoma cell proliferation and sensitivity to epidermal growth factor receptor inhibitors. *Cancer.* 2013. 119:915-923. PMID: 22990745. PMC ID:PMC3527637

183. Zhang X, Huang M, Wu X, Kadlubar S, Lin J, Yu X, Fan C, Ning B, Kadlubar FF: GSTM1 copy number and promoter haplotype as predictors for risk of recurrence and/or second primary tumor in patients with head and neck cancer. *Pharmgenomics Pers Med.* 2013. 6:9-17. PMID: 23526580. PMC ID:PMC3596140
184. Zhu S, Hong J, Tripathi MK, Sehdev V, Belkhiri A, El-Rifai W: Regulation of CXCR4-mediated invasion by DARPP-32 in gastric cancer cells. *Mol Cancer Res.* 2013. 11:86-94. PMID: 23160836. PMC ID:PMC3552044
185. Zhu S, Niu M, O'Mary H, Cui Z: Targeting of tumor-associated macrophages made possible by PEG-sheddable, mannose-modified nanoparticles. *Mol Pharm.* 2013. 10:3525-3530. PMID: 23901887. PMC ID:PMC3946577
186. Ziskin JL, Dunlap D, Yaylaoglu M, Fodor IK, Forrest WF, Patel R, Ge N, Hutchins GG, Pine JK, Quirke P, Koeppen H, Jubb AM: In situ validation of an intestinal stem cell signature in colorectal cancer. *Gut.* 2013. 62:1012-1023. PMID: 22637696.
187. Zougman A, Hutchins GG, Cairns DA, Verghese E, Perry SL, Jayne DG, Selby PJ, Banks RE: Retinoic acid-induced protein 3: identification and characterisation of a novel prognostic colon cancer biomarker. *Eur J Cancer.* 2013. 49:531-539. PMID: 23021913.

B: EDUCATIONAL AND TECHNICAL PUBLICATIONS **BY MEMBERS OF THE CHTN**

2018

Partial Year through Sept 1, 2018

1. Alves VAF, Kakudo K, LiVolsi V, Lloyd RV, Nikiforov YE, Nose V, Papotti M, Thompson LDR: Noninvasive follicular thyroid neoplasm with papillary-like nuclear features (NIFTP): Achieving better agreement by refining diagnostic criteria. *Clinics (Sao Paulo)*. 2018. 73:e576. PMID: 29791602. PMC ID:PMC5952051
2. Baloch ZW, LiVolsi VA: Special types of thyroid carcinoma. *Histopathology*. 2018. 72:40-52. PMID: 29239042.
3. Betsou F, Bilbao R, Case J, Chuaqui R, Clements JA, De Souza Y, De Wilde A, Geiger J, Grizzle W, Guadagni F, Gunter E, Heil S, Kiehntopf M, Koppandi I, Lehmann S, Linsen L, Mackenzie-Dodds J, Aguilar Quesada R, Tebbakha R, Selander T, Shea K, Sobel M, Somiari S, Spyropoulos D, Stone M, Tybring G, Valyi-Nagy K, Wadhwa L: Standard PREanalytical Code version 3.0. *Biopreserv Biobank*. 2018. PMID: 29377712.
4. Bledsoe MJ, Russell-Einhorn MK, Grizzle WE: Shifting sands: the complexities and uncertainties of the evolving US regulatory, policy, and scientific landscape for biospecimen research. *Diagnostic Histopathology*. 2018. 24:136-148.
5. Buckholz AP, Orton CB, Stine JG, Moskaluk CA, Powell SM: Universal immunohistochemistry screening for Lynch Syndrome: Real world lessons from an academic institutional experience. *Curr Trends Intern Med*. 2018. CTIM-102. DOI: 10.29011/CTIM-102. 100002
6. Campbell LD, Astrin JJ, Brody R, [...]Grizzle WE [...], Sexton KS [...], et al: Best Practices: Recommendations for Repositories. Fourth Edition. *Biopreserv Biobank*. 2018.1-103. isber.org/bestpractices
7. Furuta K, Allocca CM, Schacter B, Bledsoe MJ, Ramirez NC: Standardization and innovation in paving a path to a better future: An update of activities in ISO/TC276/WG2 biobanks and bioresources. *Biopreserv Biobank*. 2018. 16:23-27. PMID: 29394084.
8. Gaffney EF, Riegman PH, Grizzle WE, Watson PH: Factors that drive the increasing use of FFPE tissue in basic and translational cancer research. *Biotech Histochem*. 2018. 1-14. PMID: 30113239.
9. Grizzle W, Sexton K: Biorepositories 101. *Cryobiology* 2018. 159-160.
10. Lloyd RV, Asa SL, LiVolsi VA, Sadow PM, Tischler AS, Ghossein RA, Tuttle RM, Nikiforov YE: The evolving diagnosis of noninvasive follicular thyroid neoplasm with papillary-like nuclear features (NIFTP). *Hum Pathol*. 2018. 74:1-4. PMID: 29339178
11. McCall SJ, Branton PA, Blanc VM, Dry SM, Gastier-Foster JM, Harrison JH, Jewell SD, Dash RC, Obeng RC, Rose J, Mateski DL, Liubinskas A, Robb JA, Ramirez NC, Shea K: The College

of American Pathologists Biorepository Accreditation Program: Results from the First 5 Years. *Biopreserv Biobank*. 2018. 16:16-22. PMID: 29394087. PMC ID:PMC5824654

12. Mills AM, Gradecki SE, Horton BJ, Blackwell R, Moskaluk CA, Mandell JW, Mills SE, Cathro HP: Diagnostic efficiency in digital pathology: A comparison of optical versus digital assessment in 510 surgical pathology cases. *Am J Surg Pathol*. 2018. 42:53-59. PMID: 28877052
13. Mukhopadhyay S, Feldman MD, Abels E, Ashfaq R, Beltaifa S, Cacciabeve NG, Cathro HP, Cheng L, Cooper K, Dickey GE, Gill RM, Heaton RP, Jr., Kerstens R, Lindberg GM, Malhotra RK, Mandell JW, Manlucu ED, Mills AM, Mills SE, Moskaluk CA, Nelis M, Patil DT, Przybycin CG, Reynolds JP, Rubin BP, Saboorian MH, Salicru M, Samols MA, Sturgis CD, Turner KO, Wick MR, Yoon JY, Zhao P, Taylor CR: Whole slide imaging versus microscopy for primary diagnosis in surgical pathology: A multicenter blinded randomized noninferiority study of 1992 cases (Pivotal Study). *Am J Surg Pathol*. 2018. 42:39-52. PMID: 28961557. PMC ID:PMC5737464
14. Seethala RR, Baloch ZW, Barletta JA, Khanafshar E, Mete O, Sadow PM, LiVolsi VA, Nikiforov YE, Tallini G, Thompson LD: Noninvasive follicular thyroid neoplasm with papillary-like nuclear features: a review for pathologists. *Mod Pathol*. 2018. 31:39-55. PMID: 29052599
15. Strickland-Marmol LB, Muro-Cacho CA, Washington K, Foulis PR: "Ask The Pathologist": An internet forum facilitating communication between cancer registrars and pathologists. *Arch Pathol Lab Med*. 2018. PMID: 29846103

2017

1. Andry C, Duffy E, Moskaluk CA, McCall S, Roehrl MHA, Remick D: Biobanking-budgets and the role of pathology biobanks in precision medicine. *Acad Pathol*. 2017. 4:2374289517702924. PMID: 28725790. PMC ID:PMC5497908
2. Burke HB, Grizzle WE: Clinical validation of molecular biomarkers in translational medicine. In: *Biomarkers in Cancer Screening and Early Detection*. Ed: Srivastava S.; Wiley & Sons, 2017. pp. 256-262
3. Gress DM, Edge SB, Greene FL, Washington MK, Asare EA, Brierley JD, Byrd DR, Compton CC, Jessup JM, Winchester DP, Amin MB, Gershenwald JE: Principles of Cancer Staging. In: *AJCC Cancer Staging Manual*, Eighth Edition, DOI 10.1007/978-3-319-40618-3_1
4. Grizzle WE, Fredenburgh J, Sexton KC, Bell WC: Safety Issues in Biorepositories. In: *Biobanking of Human Biospecimens*. Eds: Hainaut P, Vaught J, Zatloukal K, Pasterk M. Springer, Cham. 2017
5. Hernandez-Prera JC, Machado RA, Asa SL, Baloch Z, Faquin WC, Ghossein R, LiVolsi VA, Lloyd RV, Mete O, Nikiforov YE, Seethala RR, Suster S, Thompson LD, Turk AT, Sadow PM, Urken ML, Wenig BM: Pathologic reporting of Tall-cell variant of papillary thyroid cancer: Have we reached a consensus? *Thyroid*. 2017. 27:1498-1504. PMID: 29020884
6. Hewitt RE, Grizzle WE, Watson PH, Lee Y, di Donato JH, Vaught J: Biobank and Expertise Networks. In: *Biobanking of Human Biospecimens*. Eds: Hainaut P, Vaught J, Zatloukal K, Pasterk M. Springer, Cham. 2017.

7. LiVolsi VA, Layfield L, Baloch ZW: Non-invasive follicular neoplasm with papillary like nuclear features (NIFTP): If it ain't broke, don't fix it. The cytopathologist's dilemma. *Diagn Cytopathol*. 2017. 45:479-480. PMID: 28419773
8. LiVolsi VA, Baloch ZW: NIFTP: Commentary on an Evolving Entity. *Endocr Pract*. 2017. 23:501-502. PMID: 28095047
9. Nakhleh RE, Fitzgibbons PL, Washington MK, Baker TP, Berman MA, Cagle PT: The Future of College of American Pathologists Cancer Protocols: Maintaining a commitment to patient safety while improving the user experience. *Arch Pathol Lab Med*. 2017. 141:1153-1154. PMID: 28467212
10. Nobis N, Grizzle WE, Sodeke SO: Bioethics and Cancer Biomarker Research. In: *Biomarkers in Cancer Screening and Early Detection*. Ed: Srivastava S.; Wiley & Sons, 2017. pp. 277-282
11. Panaccione A, Zhang Y, Ryan M, Moskaluk CA, Anderson KS, Yarbrough WG, Ivanov SV: MYB fusions and CD markers as tools for authentication and purification of cancer stem cells from salivary adenoid cystic carcinoma. *Stem Cell Research*. 21: 160-166, 2017.
12. Vaklavas C, Blume SW, Grizzle WE. Translational dysregulation in cancer: Molecular insights and potential clinical applications in biomarker development. *Frontiers in Oncology*. 2017. 7:158. PMID: PMC5526920
13. Wei S, Layfield LJ, LiVolsi VA, Montone KT, Baloch ZW: Reporting of fine needle aspiration (FNA) specimens of salivary gland lesions: A comprehensive review. *Diagn Cytopathol*. 2017. 45:820-827. PMID: 28371507.

2016

1. Atherton DS, Fredenburgh J, Sexton KC, Bell WC, Grizzle WE: Safety and the Biorepository. In: *Molecular Diagnostics*, 3rd Edition. Eds: Patrinos G, Ansorge W, Danielson PB. Academic Press. Chapter 28. 2016.
2. Atherton DS, Sexton KC, Otali D, Bell WC, Grizzle WE. Factors affecting the use of human tissues in biomedical research: Implications in the design and operation of a biorepository. In: *Cancer Gene Profiling: Methods and Protocols*, 2nd edition. Eds: Grützmann R, Pilarsky C. Springer Science+Business Media, LLC: New York, 2016. pp1-38
3. Bartley AN, Washington MK, Ventura CB, Ismaila N, Colasacco C, Benson AB, 3rd, Carrato A, Gulley ML, Jain D, Kakar S, Mackay HJ, Streutker C, Tang L, Troxell M, Ajani JA: HER2 Testing and Clinical Decision Making in Gastroesophageal Adenocarcinoma: Guideline From the College of American Pathologists, American Society for Clinical Pathology, and American Society of Clinical Oncology. *Am J Clin Pathol*. 2016. 146:647-669. PMID: 28077399
4. Betsou F, Bulla A, Cho SY, Clements J, Chuaqui R, Coppola D, De Souza Y, De Wilde A, Grizzle W, Guadagni F, Gunter E, Heil S, Hodgkinson V, Kessler J, Kiehntopf M, Kim HS, Koppandi I, Shea K, Singh R, Sobel M, Somiari S, Spyropoulos D, Stone M, Tybring G, Valyi-Nagy K, Van den Eynden G, Wadhwa L: Assays for qualification and quality stratification of clinical biospecimens used in research: A Technical Report from the ISBER Biospecimen

Science Working Group. *Biopreserv Biobank*. 2016. 14:398-409. PMID: 27046294. PMC ID:PMC5896556

5. Chen X, Deane NG, Lewis KB, Li J, Zhu J, Washington MK, Beauchamp RD: Comparison of nanostring nCounter(R) Data on FFPE colon cancer samples and affymetrix microarray data on matched frozen tissues. *PLoS One*. 2016. 11:e0153784. PMID: 27176004. PMC ID:PMC4866771
6. Du E, Wenig BM, Su HK, Rowe ME, Haser GC, Asa SL, Baloch Z, Faquin WC, Fellegara G, Giordano T, Ghossein R, LiVolsi VA, Lloyd R, Mete O, Ozbek U, Rosai J, Suster S, Thompson LD, Turk AT, Urken ML: Inter-observer variation in the pathologic identification of extranodal extension in nodal metastasis from papillary thyroid carcinoma. *Thyroid*. 2016. 26:816-819. PMID: 27089928
7. Gaignaux A, Ashton G, Coppola D, De Souza Y, De Wilde A, Eliason J, Grizzle W, Guadagni F, Gunter E, Koppandi I, Shea K, Shi T, Stein JA, Sobel ME, Tybring G, Van den Eynden G, Betsou F: A biospecimen proficiency testing program for biobank accreditation: Four Years of Experience. *Biopreserv Biobank*. 2016. 14:429-439. PMID: 27195612
8. Grizzle WE, Otali D, Sexton KC, Atherton DS: Effects of cold ischemia on gene expression: A Review and Commentary. *Biopreserv Biobank*. 2016. 14:548-558. PMID: 27551929. PMC ID:PMC5180081
9. Grizzle WE, Sexton KC, Bell WC. Issues in Operating a Human Tissue Resource Supporting Biomedical Research. In: *Cell Therapy: Principles, Methods and Regulations*, 2nd edition. American Association of Blood Banks (AABB), Bethesda, MD, 2016: 497-509.
10. Nikiforov YE, Seethala RR, Tallini G, Baloch ZW, Basolo F, Thompson LD, Barletta JA, Wenig BM, Al Ghuzlan A, Kakudo K, Giordano TJ, Alves VA, Khanafshar E, Asa SL, El-Naggar AK, Gooding WE, Hodak SP, Lloyd RV, Maytal G, Mete O, Nikiforova MN, Nose V, Papotti M, Poller DN, Sadow PM, Tischler AS, Tuttle RM, Wall KB, LiVolsi VA, Randolph GW, Ghossein RA: Nomenclature revision for encapsulated follicular variant of papillary thyroid carcinoma: a paradigm shift to reduce overtreatment of indolent tumors. *JAMA Oncol*. 2016. 2:1023-1029. PMID: 27078145. PMC ID:PMC5539411
11. Otali D, Fredenburgh J, Oelschlager DK, Grizzle WE: A standard tissue as a control for histochemical and immunohistochemical staining. *Biotech Histochem*. 2016. 91:309-326. PMID: 27149658
12. Rassekh CH, O'Malley BW, Jr., Bewley AF, Montone KT, Livolsi VA, Weinstein GS: Feasibility and relevance of level I substation node counts in oropharyngeal carcinoma. *Head Neck*. 2016. 38:1194-1200. PMID: 27028011
13. Samulski TD, LiVolsi VA, Wong LQ, Baloch Z: Usage trends and performance characteristics of a "gene expression classifier" in the management of thyroid nodules: An institutional experience. *Diagn Cytopathol*. 2016. 44:867-873. PMID: 27534929
14. Seijo E, Lima D, Iriabho E, Almeida J, Monico J, Echeverri M, Gutierrez S, Flores I, Lee JH, Fisher K, Grizzle WE, Sica GL, Butler C, Hicks C, Meade CD, Sodeke SO, Moroz K, Coppola D, Munoz-Antonia T: Construction and validation of a multi-institutional tissue microarray of

invasive ductal carcinoma from racially and ethnically diverse populations. *Cancer Control*. 2016. 23:383-389. PMID: 27842327. PMC ID:PMC5268085

15. Su HK, Wenig BM, Haser GC, Rowe ME, Asa SL, Baloch Z, Du E, Faquin WC, Fellegara G, Giordano T, Ghossein R, LiVolsi VA, Lloyd R, Mete O, Ozbek U, Rosai J, Suster S, Thompson LD, Turk AT, Urken ML: Inter-observer variation in the pathologic identification of minimal extrathyroidal extension in papillary thyroid carcinoma. *Thyroid*. 2016. 26:512-517. PMID: 26953223. PMC ID:PMC5583558
16. Wei S, LiVolsi VA, Montone KT, Morrissette JJ, Baloch ZW: Detection of molecular alterations in medullary thyroid carcinoma using next-generation sequencing: an Institutional Experience. *Endocr Pathol*. 2016. 27:359-362. PMID: 27379493
17. Zhu J, Deane NG, Lewis KB, Padmanabhan C, Washington MK, Ciombor KK, Timmers C, Goldberg RM, Beauchamp RD, Chen X: Evaluation of frozen tissue-derived prognostic gene expression signatures in FFPE colorectal cancer samples. *Sci Rep*. 2016. 6:33273. PMID: 27623752. PMC ID:PMC5021945

2015

1. Asa SL, Giordano TJ, LiVolsi VA: Implications of the TCGA genomic characterization of papillary thyroid carcinoma for thyroid pathology: does follicular variant papillary thyroid carcinoma exist? *Thyroid*. 2015. 25:1-2. PMID: 25409450
2. Asare EA, Washington MK, Gress DM, Gershenwald JE, Greene FL: Improving the quality of cancer staging. *CA Cancer J Clin*. 2015. 65:261-263. PMID: 25952338
3. Gajadhar AS, Johnson H, Slebos RJ, Shaddox K, Wiles K, Washington MK, Herline AJ, Levine DA, Liebler DC, White FM: Phosphotyrosine signaling analysis in human tumors is confounded by systemic ischemia-driven artifacts and intra-specimen heterogeneity. *Cancer Res*. 2015. 75:1495-1503. PMID: 25670172. PMC ID:PMC4383696
4. Grizzle WE: Missed Opportunities and Lost Lives: Consequences of some proposed changes to regulations on research with human tissues--Letter. *Clin Cancer Res*. 2015. 21:5404-5405. PMID: 26482038
5. Grizzle WE, Gunter EW, Sexton KC, Bell WC: Quality management of biorepositories. *Biopreserv Biobank*. 2015. 13:183-194. PMID: 26035008. PMC ID:PMC4559203
6. Salleng KJ, Revetta FL, Deane NG, Washington MK: The applicability of a human immunohistochemical panel to mouse models of hepatocellular neoplasia. *Comp Med*. 2015. 65:398-408. PMID: 26473343. PMC ID:PMC4617330
7. Samulski TD, Shetty C, LiVolsi VA, Montone K, Baloch Z: The reliability of thyroid nodule ultrasound features and size to predict malignancy in fine needle aspiration specimens: Practical utility for the evaluating pathologist. *Diagn Cytopathol*. 2015. 43:471-477. PMID: 25693824

8. Shifrin A, LiVolsi V, Shifrin-Douglas S, Zheng M, Erler B, Matulewicz T, Davis J: Primary and metastatic parathyroid malignancies: a rare or underdiagnosed condition? *J Clin Endocrinol Metab.* 2015. 100:E478-481. PMID: 25490272

2014

1. Auer H, Mobley JA, Ayers LW, Bowen J, Chuaqui RF, Johnson LA, Livolsi VA, Lubensky IA, McGarvey D, Monovich LC, Moskaluk CA, Rumpel CA, Sexton KC, Washington MK, Wiles KR, Grizzle WE, Ramirez NC: The effects of frozen tissue storage conditions on the integrity of RNA and protein. *Biotech Histochem.* 2014. 89:518-528. PMID: 24799092. PMC ID:PMC4213858
2. Washington MK, Baker TP, Simpson J: Checklists, protocols, and the "gold standard" approach. *Arch Pathol Lab Med.* 2014. 138:159-160. PMID: 24476515
3. Watson PH, Nussbeck SY, Carter C, O'Donoghue S, Cheah S, Matzke LA, Barnes RO, Bartlett J, Carpenter J, Grizzle WE, Johnston RN, Mes-Masson AM, Murphy L, Sexton K, Shepherd L, Simeon-Dubach D, Zeps N, Schacter B: A framework for biobank sustainability. *Biopreserv Biobank.* 2014. 12:60-68. PMID: 24620771. PMC ID:PMC4150367
4. Wiles KR, Washington MK: Implementation of an error-reporting module within a biorepository IT application to enhance operations. *Biopreserv Biobank.* 2014. 12:365-373. PMID: 25496147. PMC ID:PMC4346604
5. Zhang HG, Grizzle WE: Exosomes: a novel pathway of local and distant intercellular communication that facilitates the growth and metastasis of neoplastic lesions. *Am J Pathol.* 2014. 184:28-41. PMID: 24269592. PMC ID:PMC3873490

2013

1. Baloch Z, LiVolsi VA, Tondon R: Aggressive variants of follicular cell derived thyroid carcinoma; the so called 'real thyroid carcinomas'. *J Clin Pathol.* 2013. 66:733-743. PMID: 23626010
2. Baloch ZW, Mandel SJ, LiVolsi VA: Are we ready to modify the Bethesda thyroid fine-needle aspiration classification scheme? *Cancer Cytopathol.* 2013. 121:171-174. PMID: 23132793
3. Betsou F, Gunter E, Clements J, DeSouza Y, Goddard KA, Guadagni F, Yan W, Skubitz A, Somiari S, Yeadon T, Chuaqui R: Identification of evidence-based biospecimen quality-control tools: a report of the International Society for Biological and Environmental Repositories (ISBER) Biospecimen Science Working Group. *J Mol Diagn.* 2013. 15:3-16. PMID: 23195791.
4. Bledsoe MJ, Clayton EW, McGuire AL, Grizzle WE, O'Rourke PP, Zeps N: Return of research results from genomic biobanks: cost matters. *Genet Med.* 2013. 15:103-105. PMID: 22935716. PMC ID:PMC3635086
5. Bledsoe MJ, Clayton EW, McGuire AL, Grizzle WE, O'Rourke PP, Zeps N: Return of research results from genomic biobanks: a call for data. *Genet Med.* 2013. 15:159-160. PMID:23386185
6. Bledsoe MJ, Grizzle WE: Use of human specimens in research: the evolving United States regulatory, policy, and scientific landscape. *Diagn Histopathol (Oxf).* 2013. 19:322-330. PMID:

24639889. PMC ID:PMC3954467

7. Grizzle WE: Guest Editorial: It is primarily the control of transcription and post-transcriptional processing that are critical to the development and progression of sporadic neoplasias. *Biotech Histochem.* 2013. 88:361-364. PMID: 23848548
8. Grizzle WE, Moore HM: Mouse model findings and the future of human tissue in disease research. *Biopreserv Biobank.* 2013. 11:135-136. PMID: 24850088
9. Grizzle WE, Sexton KC, Bell WC: Human Tissue Biorepository. In: *Molecular Genetic Pathology*. Eds: Cheng L, Zhang DY, Eble JN. New York, Springer, 2013, pp. 483-497
10. Jones J, Grizzle W, Wang H, Yates C: MicroRNAs that affect prostate cancer: emphasis on prostate cancer in African Americans. *Biotech Histochem.* 2013. 88:410-424. PMID: 23901944. PMC ID:PMC4119086
11. Kloos RT, Reynolds JD, Walsh PS, Wilde JI, Tom EY, Pagan M, Barbacioru C, Chudova DI, Wong M, Friedman L, LiVolsi VA, Rosai J, Lanman RB, Kennedy GC: Does addition of BRAF V600E mutation testing modify sensitivity or specificity of the Afirma Gene Expression Classifier in cytologically indeterminate thyroid nodules? *J Clin Endocrinol Metab.* 2013. 98:E761-768. PMID: 23476074
12. Kokkat TJ, McGarvey D, Patel MS, Tieniber AD, Livolsi VA, Baloch ZW: Protein extraction from methanol fixed paraffin embedded tissue blocks: A new possibility using cell blocks. *Cytojournal.* 2013. 10:23. PMID: 24403950. PMC ID:PMC3869970
13. Kokkat TJ, Patel MS, McGarvey D, LiVolsi VA, Baloch ZW: Archived formalin-fixed paraffin-embedded (FFPE) blocks: A valuable underexploited resource for extraction of DNA, RNA, and protein. *Biopreserv Biobank.* 2013. 11:101-106. PMID: 24845430. PMC ID:PMC4077003
14. Lastra RR, Pramick MR, Nakashima MO, Weinstein GS, Montone KT, Livolsi VA, Baloch ZW: Adequacy of fine-needle aspiration specimens for human papillomavirus infection molecular testing in head and neck squamous cell carcinoma. *Cytojournal.* 2013. 10:21. PMID: 24403949. PMC ID:PMC3869969
15. Meng W, McElroy JP, Volinia S, Palatini J, Warner S, Ayers LW, Palanichamy K, Chakravarti A, Lautenschlaeger T: Comparison of microRNA deep sequencing of matched formalin-fixed paraffin-embedded and fresh frozen cancer tissues. *PLoS One.* 2013. 8:e64393. PMID: 23696889. PMC ID:PMC3655971
16. Srivastava SK, Bhardwaj A, Leavesley SJ, Grizzle WE, Singh S, Singh AP: MicroRNAs as potential clinical biomarkers: emerging approaches for their detection. *Biotech Histochem.* 2013. 88:373-387. PMID: 23293934. PMC ID:PMC4318494
17. Sun D, Zhuang X, Zhang S, Deng ZB, Grizzle W, Miller D, Zhang HG: Exosomes are endogenous nanoparticles that can deliver biological information between cells. *Adv Drug Deliv Rev.* 2013. 65:342-347. PMID: 22776312
18. Washington MK, Powell AE, Sullivan R, Sundberg JP, Wright N, Coffey RJ, Dove WF: Pathology of rodent models of intestinal cancer: progress report and recommendations. *Gastroenterology.* 2013. 144:705-717. PMID: 23415801. PMC ID:PMC3660997

C: US PATENTS ISSUED THAT CITE THE CHTN

Patents issued 2013-Sept 1, 2018 = 102

Total number of issued patents =311

2018 (Partial Year through Sept 1, 2018)

9 issued: 2 Academic/Institutional, 2 Agencies of the U.S. Government, 5 Commercial

1. 10,047,341: Generation of keratinocytes from pluripotent stem cells and maintenance of keratinocyte cultures. Assignee: FUJIFILM Cellular Dynamics, Inc.
2. 10,040,853: Methods and compositions involving NKG2D inhibitors and cancer. Assignee: Fred Hutchinson Cancer Research Center
3. 10,017,578: Methods of treating cancer in a patient by administering anti-folate-receptor-1 (FOLR1) antibodies. Assignee: ImmunoGen, Inc.
4. 10,013,760: Stain-free histopathology by chemical imaging. Assignee: A/I
5. 9,957,246: Prodrugs of tetrahydrocannabinol, compositions comprising prodrugs of tetrahydrocannabinol and methods of using the same. Assignee: ZYNERBA PHARMA
6. 9,956,260: Treatment of HIV-1 infection and AIDS. Assignee: A/I
7. 9,944,927: Therapeutic applications of p53 isoforms in regenerative medicine, aging and cancer. Assignee: USA DHHS
8. 9,920,373: Biomarkers of response to proteasome inhibitors. Assignee: Millenium Pharm
9. 9,869,678: Method for detection of L523S expression in biological samples. Assignee: Dako

2017

21 issued: 10 Academic/Institutional, 1 Agency of U.S. Government, 10 Commercial

1. 9,824,440: Methods and systems for three-dimensional real-time intraoperative surgical margin evaluation of tumor tissues. Assignee: A/I
2. 9,791,402: Nanostructured microelectrodes and biosensing devices incorporating the same. Assignee: A/I
3. 9,786,050: Stain-free histopathology by chemical imaging. Assignee: A/I
4. 9,746,482: Diagnostic biomarker profiles for the detection and diagnosis of Parkinsons disease. Assignee: A/I
5. 9,745,581: Methods of treating and diagnosing diseases using agents that regulate the alternative splicing pathway. Assignee: Yissum Research Development Company
6. 9,737,618: Adeno-associated virus (AAV) glades, sequences, vectors containing same, and

uses therefor. Assignee: A/I

7. 9,737,599: Combination of Fc.gamma.RIIB-specific antibodies and CD20-specific antibodies and methods of use thereof. Assignee: Macrogenics
8. 9,701,734: Antibody molecules (murine Anti-Merkel cell carcinoma). Assignee: A/I
9. 9,695,143: Prodrugs of tetrahydrocannabinol, compositions comprising prodrugs of tetrahydrocannabinol and methods of using the same. Assignee: Zynerva Pharma
10. 9,664,687: Diagnostic autoantibody profiles for the detection and diagnosis of neurodegenerative diseases. Assignee: A/I
11. 9,644,032: Antibodies against OX40 and uses thereof. Assignee: Bristol-Myers Squibb
12. 9,637,547: Monoclonal antibodies for detection of folate receptor 1. Assignee: Immunogen
13. 9,629,899: Targeted cargo protein combination therapy. Assignee: DHHS
14. 9,603,952: Treatment of metastatic tumors. Assignee: MORPHOTEK
15. 9,599,619: Anti-pancreatic cancer antibodies. Assignee: Immunomedics
16. 9,580,507: Human monoclonal antibodies to programmed death ligand 1 (PD-L1). Assignee: Squibb
17. 9,580,505: Human monoclonal antibodies to programmed death ligand 1 (PD-L1). Assignee: Squibb
18. 9,580,473: Method of inhibiting HIV-1 binding to genital epithelia using V3 loop-specific peptides and GP340-specific antibodies. Assignee: A/I
19. 9,566,341: Compounds including Cox inhibitor moiety and enhanced delivery of active drugs using same. Assignee: A/I
20. 9,555,087: Polypeptides and polynucleotides, and uses thereof as a drug target for producing drugs and biologics. Assignee: Compugen
21. 9,522,198: Methods and compositions related to targeting tumors and wounds. Assignee: A/I

2016

16 issued: 7 Academic/Institutional, 1 U.S. Government, 8 Commercial

1. 9,513,293: Detection of early-stage pancreatic adenocarcinoma. Assignee: Immunomedics
2. 9,488,655: Biomarkers for detection of early- and late-stage endometrial cancer. Assignee: A/I
3. 9,452,228: Antibodies reactive with an epitope located in the N-terminal region of MUC5AC comprising cysteine-rich subdomain 2 (Cys2). Assignee: Immunomedics

4. 9,441,275: Polymorphism in CYP3A4 gene affecting drug metabolizing and uses. Assignee: A/I
5. 9,433,686: Methods for treating castration resistant prostate cancer and metastasis by reducing B-cell number and/or function. Assignee: A/I
6. 9,409,994: High-affinity monoclonal antibodies to glypican-3 and use thereof. Assignee: DHHS
7. 9,409,987: Polypeptides and polynucleotides, and uses thereof for treatment of immune related disorders and cancer. Assignee: COMPUGEN
8. 9,375,466: Polypeptides and polynucleotides, and uses thereof as a drug target for producing drugs and biologics. Assignee: COMPUGEN
9. 9,352,010: Treatment of HIV-1 infection and AIDS. Assignee: A/I
10. 9,347,952: Soluble VEGFR-1 variants for diagnosis of preeclampsia. Assignee: Compugen
11. 9,289,426: Methods and compositions for treating solid tumors and enhancing tumor vaccines. Assignee: A/I
12. 9,289,130: Spatially offset raman spectroscopy of layered soft tissues and applications of same. Assignee: A/I
13. 9,273,135: Human monoclonal antibodies to programmed death ligand 1 (PD-L1). Assignee: Squibb
14. 9,238,084: Anti-mucin antibodies for early detection and treatment of pancreatic cancer. Assignee: Immunomedics
15. 9,238,081: Detection of early-stage pancreatic adenocarcinoma. Assignee: Immunomedics
16. 9,226,947: Methods for treating microbial infection. Assignee: A/I

2015

27 issued: 9 Academic/Institutional, 4 U.S. Government, 15 Commercial (one shared)

1. 9,221,915: Human monoclonal antibodies to activin receptor-like kinase-1. Assignee: Pfizer/Amgen Fremont
2. 9,212,206: 4-Fluoro-Thio-containing inhibitors of APP2, compositions thereof and method of use. Assignee: A/I
3. 9,181,340: TEM8 antibodies, conjugates thereof, and their use. Assignee: DHHS/Novartis
4. 9,175,089: Anti-LGR5 antibodies and immunoconjugates. Assignee: GENENTECH
5. 9,156,888: Antibody molecules (Merkel). Assignee: A/I
6. 9,140,692: Methods of identifying glycopeptides recognized by disease-associated auto-antibodies. Assignee: Glycozym

7. 9,140,687: Renal cell carcinoma biomarkers. Assignee: DHHS
8. 9,110,083: Biomarkers for early detection of ovarian cancer. Assignee: A/I
9. 9,107,862: Polypeptides and polynucleotides, and uses thereof as a drug target for producing drugs and biologics. Assignee: Compugen
10. 9,102,984: Systems and methods for individualized functional genomic profiling related to cancer cell growth. Assignee: A/I
11. 9,102,725: Human monoclonal antibodies to programmed death ligand 1 (PD-L1). Assignee: MEDAREX
12. 9,089,618: Anti-mucin antibodies for early detection and treatment of pancreatic cancer. Assignee: Immunomedics
13. 9,078,915: Prostate carcinogenesis predictor. Assignee: VA
14. 9,075,044: Compositions and methods for detection and modulation of T cell mediated immune responses against viral vectors utilized for gene therapy. Assignee: A/I
15. 9,068,165: Therapeutic applications of P53 isoforms in regenerative medicine, aging and cancer. Assignee: DHHS
16. 9,051,615: Method of detecting and treating tuberous sclerosis complex associated disorders. Assignee: Celldex Therapeutics
17. 9,033,950: Method for transdermal delivery of permeant substances. Assignee: Nitto Denko
18. 9,023,595: Treatment of metastatic tumors. Assignee: Morphotek
19. 9,020,581: Spatially offset Raman spectroscopy of layered soft tissues and applications of same. Assignee: A/I
20. 9,012,143: Polymorphisms in genes affecting ace-related disorders and uses thereof. Assignee: A/I
21. 9,006,173: Microcystins as agents for treatment of cancer. Assignee: A/I
22. 9,005,613: Anti-mucin antibodies for early detection and treatment of pancreatic cancer. Assignee: Immunomedics
23. 8,999,335: Compositions and methods for treatment of drug resistant multiple myeloma. Assignee: Compugen
24. 8,980,942: Prodrugs of tetrahydrocannabinol, compositions comprising prodrugs of tetrahydrocannabinol and methods of using the same. Assignee: Zynerva Pharmaceutical.
25. 8,974,784: Anti-pancreatic cancer antibodies. Assignee: Immunomedics

26. 8,962,808: EGFR-related polypeptides and methods of use. Assignee: A/I
27. 8,946,387: Fc.gamma.RIIB specific antibodies and methods of use thereof. Assignee: MacroGenics

2014

12 issued: 6 Academic/Institutional, 2 U.S. Government, 4 Commercial

1. 8,923,595: Method of identification of cancerous and normal cells. Assignee: A/I
2. 8,916,163: Method for treating microbial infections. Assignee: A/I
3. 8,888,969: Nanostructured microelectrodes and biosensing devices incorporating the same. Assignee: A/I
4. 8,841,436: Screening, diagnosing, treating and prognosis of pathophysiologic status by RNA regulation. Assignee: A/I
5. 8,821,868: Anti-pancreatic cancer antibodies. Assignee: Immunomedics
6. 8,815,804: Methods and compositions related to targeting tumors and wounds. Assignee: Immunomedics
7. 8,795,662: Anti-mucin antibodies for early detection and treatment of pancreatic cancer. Assignee: Immunomedics
8. 8,790,869: Renal cell carcinoma biomarkers. Assignee: DHHS
9. 8,778,339: Combination of Fc.gamma.RIIB-specific antibodies and CD20-specific antibodies and methods of use thereof. Assignee: MacroGenics
10. 8,722,637: Methods and compositions of IG20 and DENN-SV splice variants. Assignee: A/I
11. 8,653,271: Enhancing transdermal delivery of opioid antagonists and agonists using codrugs linked to bupropion or hydroxybupropion. Assignee: A/I
12. 8,620,592: Methods for analyzing high dimensional data for classifying, diagnosing, prognosticating, and/or predicting diseases and other biological states. Assignee: DHHS

2013

17 issued: 7 Academic/Institutional, 6 U.S. Government, 4 Commercial

1. 8,609,819: Extracellular serine protease. Assignee: A/I
2. 8,603,758: Prostate carcinogenesis predictor. Assignee: VA
3. 8,575,121: Therapeutic applications of p53 isoforms in regenerative medicine, aging and cancer. Assignee: DHHS

4. 8,574,854: Anti-mucin antibodies for early detection and treatment of pancreatic cancer. Assignee: Immunomedics
5. 8,563,248: Compositions and methods for detection of colorectal cancer. Assignee: A/I
6. 8,524,248: Methods to diagnose and immunize against the virus causing human Merkel cell carcinoma. Assignee: DHHS
7. 8,518,647: Method of diagnosing poor survival prognosis colon cancer using miR-16b. Assignee: DHHS/NIH
8. 8,491,896: Anti-pancreatic cancer antibodies. Assignee: Immunomedics
9. 8,466,339: Mig-6 knockout mice and elucidation of association of Mig-6 with early onset degenerative joint disease and role as a tumor suppressor. Assignee: A/I
10. 8,455,208: Biomarkers for follicular thyroid carcinoma and methods of use. Assignee: A/I
11. 8,454,958: Methods for detecting and inhibiting angiogenesis. Assignee: A/I
12. 8,415,455: Polypeptides and polynucleotides, and uses thereof as a drug target for producing drugs and biologics. Assignee: Compugen
13. 8,383,806: Method of reversing carboplatin resistance by inhibition of HGFIN. Assignee: A/I
14. 8,383,796: Nucleic acids encoding monoclonal antibodies to programmed death ligand 1 (PD-L1). Assignee: Medarex
15. 8,367,632: Methods for reverting methylation by targeting methyltransferases. Assignee: A/I
16. 8,349,568: Method of diagnosing poor survival prognosis colon cancer using let-7g. Assignee: DHHS/NIH
17. 8,343,725: Method of diagnosing poor survival prognosis colon cancer using miR-10a. Assignee: DHHS/NIH